### BEFORE THE PUBLIC SERVICE COMMISSION OF SOUTH CAROLINA

### **DOCKET NO. 2018-3-E**

In the Matter of	DIRECT TESTIMONY OF
Annual Review of Base Rates	KIMBERLY D. MCGEE FOR DUKE
for Fuel Costs for	1
Duke Energy Carolinas, LLC	) ENERGY CAROLINAS, LLC

### Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

- 2 A. My name is Kimberly D. McGee, and my business address is 550 South Tryon
- 3 Street, Charlotte, North Carolina.

### 4 Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

- 5 A. I am a Rates Manager supporting both Duke Energy Carolinas, LLC ("DEC" or
- 6 the "Company") and Duke Energy Progress, LLC ("DEP") (collectively, the
- 7 "Companies").

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### 8 Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND

- 9 **PROFESSIONAL EXPERIENCE.**
- 10 A. I graduated from the University of North Carolina at Charlotte with a Bachelor of
- Science degree in Accountancy. I am a certified public accountant licensed in the
- State of North Carolina. I began my career in 1989 with Deloitte and Touche,
- LLP as a staff auditor. In 1992, I began working with DEC (formerly known as
- Duke Power Company) as a staff accountant and have held a variety of positions
- in the finance organization. From 1997 until 2009, I worked for Wachovia Bank
- 16 (now known as Wells Fargo) in a variety of finance and regulatory positions. I
- rejoined DEC in January 2009 as a Lead Accountant in Financial Reporting. I
- joined the Rates Department in 2011 as Manager, Rates and Regulatory Filings.

### Q. HAVE YOU TESTIFIED BEFORE THIS COMMISSION IN ANY PRIOR

20 **PROCEEDINGS?** 

- 21 A. Yes. I testified before the Public Service Commission of South Carolina
- 22 ("PSCSC" or "Commission") in DEC's 2017 annual fuel and environmental cost
- recovery proceeding in Docket 2017-3-E and in DEP's 2016 and 2015 annual fuel

and environmental cost recovery proceedings in Docket Nos. 2016-1-E and 2015-1-E.

### Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

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The purpose of my testimony is to provide DEC's actual fuel, capacity related 4 A. costs including Public Utility Regulatory Policies Act of 1978 ("PURPA") 5 6 capacity, environmental, and Distributed Energy Resource Program ("DERP") cost data for June 1, 2017 through May 31, 2018 (the "review period"), the 7 projected fuel, capacity related costs, environmental and DERP cost information 8 9 for June 1, 2018 through September 30, 2018 (the "forecast period"), and DEC's proposed fuel factors by customer class for October 1, 2018 through September 10 30, 2019 (the "billing period"). I have provided fourteen exhibits to support my 11 testimony. 12

### Q. WHAT IS THE SOURCE OF THE ACTUAL INFORMATION AND DATA FOR THE REVIEW PERIOD?

Actual test period kilowatt hour ("kWh") generation, kWh sales, fuel-related revenues, fuel-related expenses, and DERP revenues and expenses were taken from DEC's books and records. These books, records, and reports of DEC are subject to review by the appropriate regulatory agencies in the three jurisdictions that regulate DEC's electric rates.

In addition, independent auditors perform an annual audit to provide assurance that, in all material respects, internal accounting controls are operating effectively and DEC's financial statements are accurate.

### Q. DOES DEC PURCHASE POWER AND HOW ARE THESE COSTS

### RECORDED?

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Yes. The Company continuously evaluates purchasing power if it can be reliably procured and delivered at a price that is less than the variable cost of DEC's generation. In accordance with S.C. Code Ann. § 58-27-865(A), DEC recovers from its South Carolina retail customers an amount that is the lower of the purchase price or DEC's avoided variable cost for generating an equivalent amount of power for its economy purchases. The Company also engages in economy purchases (and economy sales) with DEP as a result of the Joint Dispatch Agreement.

The Company also purchases power from certain suppliers that are treated as firm generation capacity purchases. In accordance with S.C. Code Ann. § 58-27-865(A)(2)(a), all amounts paid to these suppliers are recorded as recoverable fuel costs with the exception of capacity charges.

Finally, the Company routinely purchases power from qualifying facilities under the Public Utility Regulatory Policies Act of 1978 ("PURPA"). According to revisions in Act 236 that are set forth in S.C. Code Ann. § 58-27-865(A), the avoided cost payments for such purchases are included in fuel recoverable from South Carolina retail customers. In addition, Act 236 also made revisions to § 58-27-865(A)(1) relating to the allocation of any capacity costs that are recovered under the fuel factor.

### Q. PLEASE EXPLAIN MCGEE EXHIBIT NO. 1.

A. McGee Exhibit No. 1 is a summary of DEC's recommended fuel rate components for the billing period. The components include amounts for (1) capacity related

costs, (2) DERP avoided costs, (3) variable environmental costs, (4) DERP incremental costs, and (5) all other fuel costs, which are referred to as "base" fuel costs. These fuel rate components are supported by McGee Exhibit Nos. 2 through 14 and individually discussed further in my testimony. The following table shows the rates and monthly charges proposed by the Company in this proceeding as reflected in McGee Exhibit No. 1. As reflected in the table, the DERP incremental cost component is computed as a dollar amount per customer account since these amounts are subject to per-account cost caps established by Act 236. All other fuel components are computed as a rate per kWh.

Pursuant to Act 236, the capacity components and the DERP avoided cost components are shown separately. Act 236 requires that capacity costs and avoided costs of distributed energy resource programs be allocated and recovered among customer classes using the same method that is used to allocate and recover variable environmental costs.

In addition, McGee Exhibit No. 1 includes the projected per-account charge per month of \$0.90, \$9.95 and \$100.00, including Gross Receipts Tax ("GRT"), for South Carolina residential, general service, and industrial customers, for the recovery of 100 percent of the DERP incremental costs, in accordance with S.C. Code Ann. § 58-27-865(A)(1). The DERP incremental cost component is shown separately because Act 236 requires that incremental costs of DERP be allocated among customer classes using the same method that is used to allocate variable environmental costs.

		<b>Customer Class</b>	
		Cents / kWh	
		General/Lightin	
Description	Residential	g	Industrial
Base Fuel Costs			
Base Fuel Cost Component Under / (Over) at September 2017	0.3488	0.3488	0.3488
Base Fuel Cost Component Projected Billing Period	1.7728	1.7728	1.7728
Total Base Fuel Cost Component	2.1216	2.1216	2.1216
Capacity Related Costs		Cents / kWh	
PURPA Purchased Power Component Under / (Over) at September 2017	(0.0136)	0.0004	0.0051
Capacity Related Cost Component Projected Billing Period	0.1410	0.1154	0.0850
Total Capacity Related Cost Component	0.1274	0.1158	0.0901
Distributed Energy Resource Progam Avoided Costs		Cents / kWh	
DERP Avoided Costs Component Under / (Over) at September 2017	0.0001	0.0001	0.0001
DERP Avoided Costs Component Projected Billing Period	0.0005	0.0004	0.0003
Total DERP Avoided Costs Component	0.0006	0.0005	0.0004
Environmental Costs		Cents / kWh	
Environmental Component Under / (Over) at September 2017	(0.0141)	(0.0058)	(0.0017)
Environmental Component Projected Billing Period	0.0307	0.0251	0.0185
Total Environmental Component	0.0166	0.0193	0.0168
Total Fuel Cost Factor	2.2662	2.2572	2.2289
Distributed Energy Resource Program Incremental Cost per Account			
		General Service	
Total DERP Annual Charge - including GRT	\$ 10.80	\$ 119.45	\$ 1,200.00
Total DERP Monthly Charge - including GRT	\$ 0.90	\$ 9.95	\$ 100.00

### Q. HOW DID DEC'S FUEL REVENUE BILLINGS COMPARE TO THE

### **3 FUEL COSTS INCURRED DURING THE JUNE 2017 – MAY 2018 TIME**

### 4 **PERIOD?**

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- 5 A. McGee Exhibit No. 2 is a monthly comparison of fuel revenues billed to South
- 6 Carolina retail customers to the actual and estimated jurisdictional fuel costs

attributable to those sales. As shown on Exhibit 2, the projected DEC fuel recovery status at September 30, 2018 is an under-recovery of \$75.6 million.

### Q. PLEASE EXPLAIN MCGEE EXHIBIT NO. 3.

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A. McGee Exhibit No. 3 presents DEC's recommended projected base fuel rate of 1.7728¢/kWh for the billing period for the recovery of South Carolina's retail share of \$1.5 billion of projected system fuel expense. The South Carolina retail share also incorporates the NEM avoided fuel benefits assigned fully to SC customers.

The fuel forecast supporting the projected fuel cost was generated by an hourly dispatch model that considers the latest forecasted fuel prices, outages at the generating plants based on planned maintenance and refueling schedules, forced outages based on historical trends, generating unit performance parameters, and expected market conditions associated with power purchase and off-system sales opportunities. In addition, the forecasting model reflects the joint dispatch of the combined power supply resources of the Companies.

### 16 Q. PLEASE PROVIDE A STATUS UPDATE OF ENVIRONMENTAL COST 17 COLLECTION AND EXPLAIN HOW THESE COSTS HAVE BEEN 18 TREATED IN THIS FILING.

During the review period, DEC recovered variable environmental costs and the costs of emission allowances through the environmental component of the fuel rate. Environmental costs allocated to the South Carolina retail jurisdiction during the review period were approximately \$6.4 million, as shown by month on McGee Exhibit No. 4. The Company currently estimates that its deferred

environmental cost balance will be an over-collection of \$1.4 million at September 30, 2018.

### 3 Q. HAVE YOU PROVIDED A FORECAST OF ENVIRONMENTAL COSTS?

- 4 A. Yes, McGee Exhibit No. 5 presents DEC's estimated system environmental costs for the billing period of \$21.1 million. The South Carolina retail portion is forecasted to be approximately \$5.2 million.
- Q. PLEASE DESCRIBE EMISSION-REDUCING CHEMICALS THAT DEC
   WILL INCLUDE IN THE PROPOSED FUEL RATE IN THIS FILING.
- 9 A. As Company witness Miller explains more specifically in his testimony, DEC uses emission-reducing chemicals at its fossil/hydro plants to help it provide low 10 cost, reliable electric generation for its customers while also complying with state 11 and federal environmental control obligations. As a result, DEC has included the 12 cost of magnesium hydroxide, calcium carbonate, ammonia, trona, urea, 13 14 quicklime, limestone, lime and hydrated lime incurred during the review period in its fuel cost recovery application. Mercury and Air Toxics Standards ("MATS") 15 chemicals that DEC may use in the future to reduce emissions include, but may 16 17 not be limited to, activated carbon, mercury oxidation chemicals, and mercury reemission prevention chemicals. 18

### Q. HOW DID DEC ALLOCATE ENVIRONMENTAL COSTS?

20 A. Environmental costs were allocated to Residential, General Service/Lighting, and
21 Industrial customer classes based upon the firm coincident peak demand
22 experienced. The 2016 firm coincident peak demand was used to allocate costs
23 for the period June 2017 – December 2017 and the 2017 firm coincident peak

- demand was used to allocate costs for the period January 2018 September 2019.
- This allocation is shown on McGee Exhibit Nos. 4 and 5.

### 3 Q. PLEASE PROVIDE A STATUS UPDATE OF CAPACITY-RELATED

### 4 COST COLLECTION AND EXPLAIN HOW THESE COSTS HAVE BEEN

### 5 TREATED IN THIS FILING?

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- During the review period, DEC recovered capacity-related costs, including
  PURPA purchased power capacity costs, as well as natural gas transportation and
  storage costs, as a component of the fuel rate. Capacity-related costs allocated to
  the South Carolina retail jurisdiction during the review period were approximately
  standard for the fuel rate. Capacity-related costs allocated to
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- 13 Q. PLEASE EXPLAIN MCGEE EXHIBIT NO. 7.

2018 will be an over-recovery of \$396,889.

A. McGee Exhibit No. 7 presents DEC's estimated capacity-related costs, including

PURPA purchased power capacity costs, as well as natural gas transportation and

storage costs, for the billing period of \$96.1 million. The South Carolina retail

portion is forecasted to be approximately \$23.9 million. The costs associated with

natural gas transportation and storage are described more fully below in my

testimony.

### 20 Q. HOW DID DEC ALLOCATE CAPACITY-RELATED COSTS?

A. As a result of changes made in S.C. Code Ann. § 58-27-865(A)(1) by Act 236, capacity costs recovered through the fuel factor shall be allocated and recovered from customers under a separate capacity component of the overall fuel factor

based on the same method that is used by the utility to allocate and recover variable environmental costs. Thus, capacity-related costs were allocated to Residential, General Service/Lighting, and Industrial customer classes based upon the firm coincident peak demand. The 2016 firm coincident peak demand was used to allocate costs for the period June 2017 - December 2017 and the 2017 firm coincident peak demand was used to allocate costs for the period January 2018 – September 2019. This allocation is shown on McGee Exhibit Nos. 6 and 7.

### 9 Q. ARE DERP COSTS AND ASSOCIATED REVENUES INCLUDED IN 10 THIS FUEL FILING?

11 A. Yes. Pursuant to S.C. Code Ann. § 58-39-130(A)(2), an electrical utility shall be
12 permitted to recover its costs related to its approved DERP. The Commission
13 approved DEC's recovery of DERP costs in Order No. 2015-713. Beginning in
14 October 2015, revenues were collected from customers on a per account basis,
15 and McGee Exhibit Nos. 8-14 provide details regarding the allocation and
16 recovery of the DERP costs.

### Q. PLEASE EXPLAIN WHAT IS SHOWN ON MCGEE EXHIBIT NO. 8.

McGee Exhibit No. 8 provides DEC's actual DERP incremental cost for the review period and the estimated DERP incremental cost for the estimated period by month. Incremental costs that were exclusively assigned to the South Carolina retail jurisdiction, during the review period were approximately \$8.2 million and \$3.6 million for the estimated period. McGee Exhibit No. 8 also computes a monthly (over)/under recovery of DERP incremental costs by comparing the

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<sup>&</sup>lt;sup>1</sup> The \$8.2 million includes the adjustments listed in McGee Exhibit 8 - line item 26.

- actual and estimated expenses incurred during the review period and the estimated period to the revenue collected or estimated during the actual and estimated period. As shown on Exhibit 8, the projected DERP incremental cost recovery status at September 30, 2018 is an approximate under-recovery of \$1.7 million.
- 5 Q. PLEASE EXPLAIN WHAT IS SHOWN ON MCGEE EXHIBIT NO. 9.
- McGee Exhibit No. 9 establishes the monthly charges by customer class for incremental DERP (over)/under recovery. DEC proposes the per-account monthly increment for under-recovery of \$0.11 \$1.26 and \$31.19 for South Carolina Residential, Commercial (General Service/Lighting) and Industrial customers, excluding GRT.
- 11 Q. WHAT INCREMENTAL COSTS ARE INCLUDED ON MCGEE EXHIBIT
  12 NOS. 8 AND 10?
- A. S.C. Code Ann. § 58-39-140 defines "incremental costs" as all reasonable and prudent costs incurred by an electrical utility to implement a distributed energy resource program. This filing includes the following categories of incremental costs:
  - Costs associated with purchase power agreements ("PPA") in excess of the Company's avoided cost rate;
  - The DERP net energy metering ("NEM") Incentive, which is a credit available to eligible NEM customer-generators, approved in Docket No. 2014-246-E;
- Avoided capacity costs associated with NEM, recoverable as an incremental cost based on Section 58-40-20(F)(6);

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- Rebates given to residential and non-residential customers to invest in or lease distributed generation and carrying costs related to the amortization of the rebate amounts;
- An incentive utilized to lower the subscription charge customers will pay
   to participate in a Shared Solar program;
- General and administrative costs, which include the cost of developing
   and implementing programs, cost of incremental labor and additional
   revenue-grade meters.

### 9 Q. HAS THE COMPANY COMPUTED AN UPDATED DERP NEM 10 INCENTIVE AS PART OF THIS FUEL FILING?

11 Yes. There were no changes to the methodology used to derive the DERP NEM A. Incentive, which is described in the Settlement Agreement in Docket No. 2014-12 13 246-E and approved in the Commission's Order No. 2015-194. However, the inputs to the NEM Incentive calculations were updated to reflect more current 14 information. Specifically, the hourly load associated with each rate class was 15 updated to 2017 and the hourly solar profiles were updated to match this same 16 period. Additionally, the billing rates were updated to reflect current rates 17 18 approved effective January 1, 2018. The calculation of the updated NEM Incentive is shown on Exhibit 14 and the impact is reflected in the billing period 19 amounts shown on McGee Exhibit No. 10. 20

### Q. HOW DID THE COMPANY ALLOCATE AND RECOVER ITS INCREMENTAL COSTS?

DEC allocated 100 percent of DERP incremental costs to Residential, General Service, and Industrial rate classes based upon the firm peak demand of each class for the prior year. For recovery purposes, each class's allocated portion of incremental costs will be divided by the number of accounts subject to DERP in each class. This method results in an annual dollar per account charge for all accounts subject to DERP in each class. The annual charge is a separate fixed monthly component of the fuel factor for each class of customer.

One exception to this approach is the allocation of the avoided capacity costs associated with NEM that is included in the DERP incremental costs. This particular incremental cost has been allocated to South Carolina retail based on its pro rata share of system peak demand, rather than 100 percent. This DERP cost is related to system generation supply resources. Costs and benefits associated with system generation supply resources are traditionally allocated among all of the Company's rate jurisdictions since such generation supply resources are operated as a portfolio to serve its native load customers in all rate jurisdictions.

### Q. PLEASE EXPLAIN WHAT IS SHOWN ON MCGEE EXHIBIT NO. 10.

17 A. McGee Exhibit No. 10 provides DEC's projected DERP incremental cost for the billing period of \$11.9 million.

### 19 O. PLEASE EXPLAIN WHAT IS SHOWN ON MCGEE EXHIBIT NO. 11.

A. McGee Exhibit No. 11 shows the calculation of the prospective per-account charge by customer class in order for DEC to recover DERP forecasted incremental costs. DEC has estimated per-account charges per month of \$0.78, \$8.66 and \$215.05 for South Carolina Residential, Commercial and Industrial

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customers, excluding GRT. Proposed rates are subject to per-account cost caps. 1

### WHAT DERP AVOIDED COSTS ARE INCLUDED IN THIS FILING? Q.

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Avoided cost generally refers to the cost the utility avoids when buying power 3 A. from another entity rather than generating the power itself. Under PURPA, 4 payments made to qualifying facilities for power are based on avoided cost rates. 5 6 In the DERP context, S.C. Code Ann. §58-39-140(A)(1) states that "avoided cost" for purposes of separating total DERP program costs between incremental and 7 avoided costs is "all costs paid under avoided cost rates, or negotiated rates 8 9 pursuant to PURPA, whichever is lower." In S.C. Code Ann. § 58-39-120(B), avoided costs are further defined, indicating that they are to be rates most recently 10 approved by the Commission, or negotiated pursuant to PURPA. 11

### Q. HOW WILL THE COMPANY ALLOCATE AND RECOVER ITS DERP **AVOIDED COSTS?**

DEC is allocating and recovering DERP avoided costs based on the same method 14 A. that is used by the utility to allocate and recover variable environmental costs. As 15 such, DEC allocates the South Carolina Retail portion of DERP avoided costs to 16 17 Residential, Commercial and Industrial rate classes based upon the firm peak experienced by each class during the review period. The total cost allocated to 18 19 each class is divided by projected sales to arrive at a cents per kWh.

### 20 Q. PLEASE EXPLAIN WHAT IS SHOWN ON MCGEE EXHIBIT NO. 12.

McGee Exhibit No. 12 shows the calculation of the (over)/under recovery by A. 22 customer class of total DERP avoided energy and capacity costs. Avoided energy 23 and capacity costs allocated to the South Carolina retail jurisdiction during the

- review period were \$11,162, as shown by month on McGee Exhibit No. 12. The
- 2 Company currently estimates that its deferred environmental cost balance will be
- an under-collection of \$19,459 at September 30, 2018.
- 4 Q. HAVE YOU PROVIDED A FORECAST OF DERP AVOIDED COSTS IN
- 5 MCGEE EXHIBIT NO. 13?
- 6 A. Yes, McGee Exhibit No. 13 provides DEC's projected DERP avoided cost for the
- billing period of \$321,652. The South Carolina retail portion is forecasted to be
- 8 approximately \$80,143.
- 9 Q. HAVE ANY CUSTOMER CLASSES REACHED THE DERP PER
- 10 ACCOUNT CAP IN THIS FILING?
- 11 A. Yes, the Industrial customer class has reached the per-account cap in this filing.
- As a result, we have limited the proposed rates to a per-account per month charge
- of \$100.00 for South Carolina industrial customers, including GRT.
- 14 Q. DO YOU BELIEVE DEC'S ACTUAL FUEL COSTS AND DERP COSTS
- 15 INCURRED DURING THE PERIOD WERE REASONABLE?
- 16 A. Yes. I believe the costs were reasonable and that DEC has demonstrated that it
- has met the criteria set forth in S.C. Code Ann. § 58-27-865. These costs also
- reflect DEC's continuing efforts to maintain reliable service and an economical
- 19 generation mix, thereby minimizing the total cost of providing service to DEC's
- 20 South Carolina retail customers. I also believe that the DERP costs were
- 21 reasonable and that DEC has demonstrated that it met the criteria set forth in S.C.
- 22 Code Ann. § 58-39-130(A)(2).

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Q. WHAT ARE THE KEY DRIVERS IMPACTING THE PROPOSED FUEL

### **FACTOR?**

- 2 Α. A number of factors contribute to the change in the proposed total fuel cost factors for all customer classes. Total base fuel cost factors for the billing period 3 are increasing primarily due to a larger under-collection of fuel costs included in 4 the 2018 proposed base fuel rates resulting from extreme weather conditions in 5 6 January 2018. In addition, DERP incremental costs included in the 2018 proposed DERP per account charges have increased as compared to existing rates. 7 These two impacts are the most significant drivers of the fuel rate change. 8
- 9 Q. INCLUDING THE DERP INCREMENTAL PER ACCOUNT CHARGES,
  10 WHAT IS THE IMPACT TO CUSTOMERS' BILLS IF THE PROPOSED
  11 FUEL COST, CAPACITY-RELATED COST, DERP AVOIDED COST,
  12 AND ENVIRONMENTAL COST FACTORS ARE APPROVED BY THE
  13 COMMISSION?
- 14 A. The impact of all components of this filing to customers' monthly bills of a typical
  15 residential customer using 1000 kWh per month is an increase of \$4.75, or 4.2
  16 percent. The impacts for average general service, lighting and industrial customers
  17 vary by customer, but are approximately of 6.1 percent, 2.4 percent, and 8.0 percent,
  18 respectively.
- 19 Q. DOES THIS CONCLUDE YOUR PRE-FILED DIRECT TESTIMONY?
- 20 A. Yes, it does.

## SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF TOTAL FUEL COMPONENT BILLING PERIOD OCTOBER 1, 2018 TO SEPTEMBER 30, 2019

10.80	<u> </u>	**	Line 18 / (1-Tax Rate) Line 19 / (1-Tax Rate)	Total DERP Annual Charge - including GRT Total DERP Monthly Charge - including GRT
12.00		S		Total DERP Annual Charge per account CAP
\$ 10.75 \$ 0.90	<b>₩</b>		Line 14 + Line 16 Line 15 + Line 17	Total DERP Annual Charge - excluding GRT Total DERP Monthly Charge - excluding GRT
\$ 9.39 \$ 0.78	ጭ ጭ		Exhibit 11 Exhibit 11	<b>DERP Incremental Projected Billing Period</b> Annual Charge Monthly Charge
Residential \$ 1.36 \$ 0.11	Resic		Exhibit 9 Exhibit 9	DERP Incremental Under / (Over) at September 2018  Annual Charge / (Credit)  Monthly Charge / (Credit)
2.2662			Sum Line 3 + Line 6 + Line 9 + Line 12	Total Fuel Cost Factor
(0.0141) 0.0307 0.0166			Exhibit 4 Page 1, 2, 3 Exhibit 5 Line 10 + 11	Environmental Costs Environmental Component Under / (Over) at September 2018 Environmental Component Projected Billing Period Total Environmental Component
0.0001 0.0005 0.0006			Exhibit 12 Page 1,2,3 Exhibit 13 Line 7 + 8	Distributed Energy Resource Progam Avoided Costs  DERP Avoided Costs Component Under / (Over) at September 2018  DERP Avoided Costs Component Projected Billing Period  Total DERP Avoided Costs Component
(0.0136) 0.1410 0.1274			Exhibit 6 Page 1, 2, 3 Exhibit 7 Line 4 + 5	Capacity Related Costs  PURPA Purchased Power Component Under / (Over) at September 2018  Capacity Related Cost Component Projected Billing Period  Total Capacity Related Cost Component
0.3488 1.7728 2.1216	Nussa		Exhibit 2 Page 2 Exhibit 3	Base Fuel Costs  Base Fuel Cost Component Under / (Over) at September 2018  Base Fuel Cost Component Projected Billing Period  Total Base Fuel Cost Component
Residential	Resid		Reference	Description

Totals may not sum due to rounding

## SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF BASE FUEL (OVER) / UNDER RECOVERY ACTUAL COSTS AND REVENUES JUNE 2017 - MAY 2018

22 23 24 25	19 20 21	16 17 18	13 14 15	12	9 10 11	8 7 6 5 7 8 2 1	Line No.
(Over)/Under Current Month (Over) / Under Cumulative Balance May 2017 Adjustment (Over)/Under Cumulative Balance	Fuel Costs Collected - non capacity revenue Fuel Benefit given in SC NEM Incentive Adjusted Fuel Costs Collected	SC Base Fuel Costs Assign 100% of avoided fuel benefit of SC NEM Adjusted SC Base Fuel Costs	Actual/Projected SC Retail Sales kWh (w/solar) Eliminate the NEM impact of Solar Generation kWhs Adjusted Actual/Projected SC Retail Sales kWh (w/o solar)	System cost ¢/kwh	Total System KWH Sales Eliminate NEM Solar Generation kwhs Adjusted Projected System kwh Sales	Coal Gas Nuclear Fuel Purchased Power Fuel Expense Recovered Through Intersystem Sales Total Fuel Costs Eliminate Avoided Fuel Benefit of SC NEM Adjusted System Fuel costs	. Description
Line 21-Line 18 Prior Year Annual Filing Prior month Line 26 + Line 22 + Sum (Current month Lines 24-25)	Line 19 + 20	Line 12 * Line 15 /100 Line 7 Line 16 + 17	Line 13 + 14	(Line 8 *100) / (Line 9)	Line 9 + 10	Sum Lines 1 through 6	Reference
\$ 5,779,106 7,670,353 - \$ 13,449,459	\$ 29,226,181 (32,924) 29,193,257	\$ 35,082,010 (109,647) \$ 34,972,363	1,840,787,327 3,385,344 1,844,172,671	1.9023	7,382,797,262 3,385,344 7,386,182,606	\$ 74,811,660 22,774,216 26,745,146 19,615,582 (3,547,644) \$ 140,398,960 109,647 \$ 140,508,607	June 2017
\$ 10,944,730 - - - \$ 24,394,189	\$ 31,827,457 (35,221) 31,792,236	\$ 42,854,240 (117,273) \$ 42,736,967	2,004,626,644 3,620,824 2,008,247,468	2.1339	8,213,697,211 3,620,824 8,217,318,035	\$ 100,395,302 27,137,935 27,446,315 22,853,137 (2,599,603) \$ 175,233,087 117,273 \$ 175,350,360	July 2017
\$ 7,358,842 9 - - - \$ 31,753,031 9	\$ 32,479,779 ( (37,544) \$ 32,442,235 (	\$ 39,926,018 \$ (124,941) \$ 39,801,077 \$	2,045,712,681 3,857,580 2,049,570,261	1.9480	8,242,499,300 3,857,580 8,246,356,880	\$ 84,699,609 \$ 25,371,393 27,638,720 26,341,825 (3,535,888) \$ 160,515,657 \$ 124,941 \$ 160,640,598 \$	August 2017
\$ 1,207,931 \$ - - \$ 32,960,962 \$	\$ 30,281,558 \$ (39,035) \$ 30,242,523	\$ 31,580,364 \$ (129,910) \$ 31,450,454 \$	1,907,259,402 4,010,932 1,911,270,334 \$	1.6523	7,632,543,035 4,010,932 7,636,553,967	\$ 50,916,652 \$ 23,631,728 24,556,576 29,927,562 (2,981,870) \$ 126,050,647 \$ 129,910 \$ 126,180,557 \$	September 2017
2,093,819 - - - 35,054,781	27,411,581 (53,061) 27,358,520	29,583,689 (131,350) 29,452,339	1,664,779,554 4,057,468 1,668,837,022	1.7727	6,668,383,285 4,057,468 6,672,440,753	46,746,306 22,428,247 21,980,499 29,307,786 (2,310,970) 118,151,867 131,350 118,283,217	October 2017
\$ 2,125,251 - - - \$ 37,180,032	\$ 27,695,070 (64,364) 27,630,706	\$ 29,888,589 (132,631) \$ 29,755,958	1,604,311,093 4,097,904 \$ 1,608,408,997	1.8583	6,410,573,998 4,097,904 6,414,671,902	\$ 39,498,559 26,728,244 21,349,394 32,903,659 (1,410,536) \$ 119,069,322 132,631 \$ 119,201,953	November 2017

47 48 49	44 45 46	41 42 43	38 39 40	37	34 35 36	32 33	26 27 28 29 30 31	Line No.
(Over)/Under Current Month Adjustment (Over)/Under Cumulative Balance	Fuel Costs Collected - non capacity revenue Fuel Benefit given in SC NEM Incentive Adjusted Fuel Costs Collected	SC Base Fuel Costs Assign 100% of avoided fuel benefit of SC NEM Adjusted SC Base Fuel Costs	Actual/Projected SC Retail Sales kWh (w/solar) Eliminate the NEM impact of Solar Generation kWhs Adjusted Actual/Projected SC Retail Sales kWh (w/o solar)	System cost ¢/kwh	Total System KWH Sales (w/solar) Eliminate NEM Solar Generation kwhs Adjusted Projected System kwh Sales (w/o solar)	Eliminate Avoided Fuel Benefit of SC NEM Adjusted System Fuel costs	Coal Gas Nuclear Fuel Purchased Power Fuel Expense Recovered Through Intersystem Sales Total Fuel Costs	. Description
Line 44 - Line 47 Prior month Line 50 + Sum (Current month Lines 48-49)	Line 45 + Line 46	Line 38 * Line 41 /100 Line 33 Line 42 + Line 43	Line 39 + Line 40	Line 34 / Line 37 * 100	Line 35 + Line 36	Line 32 + Line 33	Sum Lines 27 through 31	Reference
\$ 4,308,185 - \$ 41,488,217	\$ 29,174,071 (68,793) \$ 29,105,278	\$ 33,555,207 (141,744) \$ 33,413,463	1,689,291,924 4,379,391 1,693,671,315	1.9812	7,057,410,509 4,379,391 7,061,789,900		\$ 54,926,609 26,201,507 25,331,093 37,059,052 (3,751,028) \$ 139,767,233	December 2017
\$ 25,864,557 \$ - \$ 67,352,774 \$	\$ 34,613,338 \$ (92,254) \$ \$ 34,521,084 \$	\$ 60,574,478 \$ (188,837) \$ 60,385,641 \$	2,004,246,555 5,835,058 2,010,081,613	3.0135	8,697,594,873 5,835,058 8,703,429,931	188,837 262,280,760	\$ 97,350,370 \$ 88,979,113 25,328,094 80,551,693 (30,117,348) \$ 262,091,923 \$	January 2018
(5,855,385) \$ - - 61,497,389 \$	30,942,769 \$ (92,837) 30,849,932 \$	25,184,582 \$ (190,035) 3 24,994,547 \$	1,791,706,347 5,872,084 1,797,578,431	1.4010	7,453,819,034 5,872,084 7,459,691,118	190,035 104,512,383	28,906,982 \$ 24,164,907 22,598,045 28,905,890 (253,474) 5 104,322,348 \$	February 2018
3,055,177 \$ 5,807 64,558,373 \$	26,319,560 \$ (99,216) 26,220,344 \$	29,478,577 \$ (203,056) 29,275,521 \$	1,524,004,658 6,274,434 1,530,279,092	1.9264	6,443,723,578 6,274,434 6,449,998,012		56,395,872 \$ 31,701,181 24,578,819 18,361,522 (6,990,720) 124,046,675 \$	March 2018
(3,801,671) \$ 80,739 60,837,441 \$	27,368,786 \$ (133,731) 27,235,055 \$	23,708,318 \$ (274,934) 23,433,384 \$	1,584,758,862 8,499,697 1,593,258,559	1.4880	6,581,829,396 8,499,697 6,590,329,093		36,308,705 \$ 30,081,254 21,841,292 17,705,909 (8,145,388) 97,791,773 \$	April 2018
3,791,274 (66,306) 64,562,410	28,330,605 (145,988) 28,184,617	32,275,758 (299,867) 31,975,892	1,640,451,950 9,270,530 1,649,722,480	1.9564	6,581,962,808 9,270,530 6,591,233,338		64,469,257 28,863,383 22,287,681 19,358,965 (6,325,916) 128,653,370	May 2018
\$ 56,871,819 20,240 \$ 64,562,410	355,670,755 (894,968) 354,775,787	413,691,831 (2,044,225) 411,647,606	21,301,936,997 63,161,246 21,365,098,243		87,366,834,289 63,161,246 87,429,995,535		\$ 735,425,883 378,063,108 291,681,674 362,892,583 (71,970,386) \$ 1,696,092,861	Twelve Months Ended May 2018

## SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF BASE FUEL (OVER) / UNDER RECOVERY ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2018

Extraction   Ext	21,676,037,448				Line 73 / Line 74 * 100	Projected SC Retail Sales kwhs (October 2018-September 2019) SC Rase Filel Rate (cents / kWh)	74 75
Description   Description   Reference   Estimated		78,606,185	75,529,265	69,632,689	Prior month bal + current mo. Lines 71 and 72	er Cumulative	73
Coal Coal Coal Coal Coal Coal Coal Coal		3,076,921		5,070,279	1	(Over)/Under Current Month	71
Coal Gas		35,309,603	34	31,449,175		Adjusted Fuel Costs Collected	70
Coal Gas   Nuclear Fuel   Description   Reference   Description   Reference   Description   Reference   Description   Description   Reference   Description   Description   Description   Reference   Description   Description   Description   Reference   Description   Description   Description   Description   Description   Reference   Description   De	34,301,037 (166,242	35,471,836 (162,233)	34	31,601,693 (152,519)	*	Estimated Base Fuel Cost Collected	68
Coal Gas Nuclear Fuel         Estimated June Reference         Estimated June Reference         Lestimated June Sol 35,200,38         Estimated June 2018         Lestimated 2018         Estimated 2018         Estimated 2018         Estimated 2018         Estimated 2018         Estimated 2018         Estimated 2018         Estimated 2018         Estimated 2018         Sol 2018         Estimated 2018         Sol 2018         2018         Estimated 2018         Sol 2018         2018         Estimated 2018         Sol 2018         Sol 2018         2018         Estimated 2018         Sol 2018         2018         2018         2018         Sol 2018         Sol 2018         2018         2018         Sol 2018         S	31,141,264	38,386,524	39	36,519,454		Adjusted SC Base Fuel Costs	67
Description	31,482,854 (341.589	38,719,891 (333.368)	40	36,832,799 (313.345)		SC Base Fuel Costs Assign 100% of avoided fuel benefit of SC NEM	65 66
Estimated   Esti	1,986,163,127 10,560,367 1,996,723,494	2,053,956,924 10,306,180 2,064,263,104	1,979,919,610 10,049,999 1,989,969,609	1,829,860,637 9,687,187 1,839,547,825	Line 62 and 63	Projected SC Retail Sales kWh (w/solar) Assign 100% of avoided fuel benefit of SC NEM Projected SC Retail Sales kWh (w/o solar)	62 63 64
Coal         Description         Reference         2018         2018         2018         2018         2018         5         66,025,014         \$ 82,734,655         \$ 78,783,662         \$ 78,783,662         \$ 78,783,662         \$ 78,783,662         \$ 78,783,662         \$ 78,783,662         \$ 78,783,662         \$ 78,783,662         \$ 78,783,662         \$ 78,783,662         \$ 78,783,662         \$ 78,783,662         \$ 78,783,662         \$ 78,783,662         \$ 78,783,662         \$ 78,783,662         \$ 78,783,662         \$ 78,783,662         \$ 78,783,662         \$ 78,793,883         \$ 78,791,883		1.8757	2.0230	2.0023	57	System cost ¢/kwh	61
Coal         Estimated         Est	7,994,793,000 10,560,367 8,005,353,367	8,409,562,198 10,306,180 8,419,868,378	8,220,497,571 10,049,999 8,230,547,570	7,397,566,722 9,687,187 7,407,253,909		Total Projected System KWH Sales (w/solar) Eliminate NEM Solar Generation kwhs Adjusted Projected System kwh Sales(w/o solar)	58 59 60
Coal         Estimated         Est	126,222,468	157,933,544	166,502,209	148,313,563		Adjusted System Fuel costs	57
Coal         Sept Herence         Lestimated         Lestimated<		333,368		313,345		Eliminate Avoided Fuel Benefit of SC NEM	56
Lestimated   Les	125,880,879	157,600,176	16	148,000,218		Total Fuel Costs	55
Estimated         Estimated <t< td=""><td>(1,573,557</td><td>(2,792,058)</td><td>(2,042,588)</td><td>(708,311)</td><td></td><td>Fuel Expense Recovered Through Intersystem Sales</td><td>54</td></t<>	(1,573,557	(2,792,058)	(2,042,588)	(708,311)		Fuel Expense Recovered Through Intersystem Sales	54
Estimated         Estimated <t< td=""><td>20,814,236</td><td>19,303,873</td><td>22,334,883</td><td>23.574.061</td><td></td><td>Purchased Power</td><td>53</td></t<>	20,814,236	19,303,873	22,334,883	23.574.061		Purchased Power	53
Estimated         Estimated <t< td=""><td></td><td>24,391,817</td><td>25,030,044</td><td>23,829,415</td><td></td><td>Nuclear Fuel</td><td>52</td></t<>		24,391,817	25,030,044	23,829,415		Nuclear Fuel	52
Description Reference Estimated Estimated Estimated Estimated June July August 2018 2018	51,473,243 34,164,204	78,783,662 37,912,883		66,025,014 35,280,038		Coal Gas	50 51
Lestimated Estimated Estimated Lestimated Le	2018	2018	2018	2018	Reference		Line No.
	September	August	July	June	•		:

## SOUTH CAROLINA RETAIL FUEL CASE PROJECTED BILLING PERIOD BASE FUEL COSTS FOR THE 12 MONTHS OCTOBER 1, 2018 TO SEPTEMBER 30, 2019

16	15	14	13	12	11	10	9		œ	7	6	5	4	ω	2	Ь	Line No.	
Adjusted SC Base Fuel Costs	Assign 100% of Avoided Fuel Benefit of SC NEM (Note 1)	SC Base Fuel Costs	Adjusted Projected SC Retail Sales kwhs(w/o solar)	System Cost per kwh (¢/kwh)	Adjusted Projected System kwh Sales(w/o solar)	Eliminate NEM Solar Generation kwhs	Total Projected System Sales kwhs (w/solar)		Adjusted System Fuel costs	Eliminate Avoided Fuel Benefit of SC NEM	Total Fuel Costs	Fuel Expense Recovered Through Intersystem Sales	Purchased Power	Nuclear Fuel	Gas	Coal	Description	
Line 14 + Line 15		Line 13 * Line 12 / 100		Line 8 / Line 11 * 100	Line 9 + Line 10				Line 6 + Line 7		Sum Lines 1 through 5						Reference	
\$ 28,076,400 \$	(149.350)	\$ 28,225,751	1,653,194,426	1.7073	6,510,687,766	10,733,007	6,499,954,760		\$ 111,159,975	348,743	\$ 110,811,232	(295,417)	25,794,672	19,891,450	31,311,476	\$ 34,109,050	2018	October
29	(145.226)	\$ 29,955,966	1,656,272,755	1.8086	6,613,033,084	10,434,299	6,602,598,785	•	\$ 111,159,975 \$ 119,605,780 \$ 138,352,910 \$ 141,480,223 \$ 119,932,816	339,036	\$ 110,811,232 \$ 119,266,744 \$ 138,019,154 \$ 141,129,166 \$	(247,602)	29,721,032	20,204,793	44,439,199	\$ 25,149,321	2018	November
33	(142.984)	\$ 33,379,504	1,730,095,930	1.9293	7,170,981,426	10,271,828	7,160,709,598	•	\$ 138,352,910	333,756	\$ 138,019,154	(1,207,492)	21,480,788	22,719,190	39,182,746	\$ 55,843,922	2018	December
33	(150.461)	\$ 33,942,669	1,941,621,831	1.7482	8,093,090,473	10,804,371	8,082,286,102		\$ 141,480,223	351,058	\$ 141,129,166	(8,994,499)	9,044,165	25,684,279	24,291,241	\$ 91,103,980	2019	January
29		\$ 29,866,818	1,890,160,429	1.5801	7,590,104,174	11,103,277	7,579,000,897		\$ 119,932,816	360,768	\$ 119,572,048	(8,626,075)	9,786,212	23,106,062	19,899,465	\$ 75,406,386	2019	February
\$ 27		\$ 27,423,730	1,701,479,433	1.6118	6,751,046,231	11,707,350	6,739,338,881		\$ 108,810,525	380,392	\$ 108,430,133		20,956,831	24,029,662	33,616,653	\$ 33,729,731	2019	March

1.7728							Line 32 / Line 36 * 100	SC Base Fuel Rate (cents / kWh)	37
6,580,779,714 5,838,912,144 9,256,345,589 21,676,037,448	I						Sum Lines 33 through 35	Projected SC Retail Sales kWh (October 2018 - September 2019) Residential General Service/Lighting Industrial Total SC	33 34 36
1.7718 21,813,964,237 \$ 386,200,473 (1,921,959) \$ 384,278,514	1.5458 1,985,123,379 : \$ 30,686,950 \$ (162,484) \$ 30,524,465 \$	1.7838 2,114,032,235 37,710,747 (165,902) 37,544,844	2.1042 1,977,673,029 41,614,207 (170,586) 41,443,621	2.0499 1,838,390,333 37,684,773 \$ (173,003) 37,511,770 \$	1.6925 1,708,606,495 28,917,455 (171,852) 28,745,602	1.6566 1,617,313,962 \$ 26,791,903 \$ (172,230) \$ 26,619,673 \$	Line 24 / Line 27 *100 Line 28 * Line 29 / 100 Line 30 + Line 31	System Cost per kwh (¢/kwh) Adjusted Projected SC Retail Sales kwhs(w/o solar) SC Base Fuel Costs Assign 100% of Avoided Fuel Benefit of SC NEM <sup>(Note 1)</sup> Adjusted SC Base Fuel Costs	28 29 30 31 32
87,318,030,105 137,926,790 87,455,956,895	7,846,096,714 11,656,847 7,857,753,561	8,522,431,399 11,900,312 8,534,331,711	8,039,482,276 12,234,038 8,051,716,314	7,271,666,889 8 12,406,205 7,284,073,094 8	6,684,011,828 12,324,187 6,696,336,016	6,290,451,974 12,351,069 6,302,803,043	Line 25 + Line 26	Total Projected System Sales kwhs (w/solar) Eliminate NEM Solar Generation kwhs Adjusted Projected System kwh Sales(w/o solar)	25 26 27
(29,825,816) \$ 1,545,049,326 4,481,502 \$ 1,549,530,828		(1,884,871) 151,851,330 186,661 152,237,991	(2,096,778) 169,026,757 397,503 169,424,260	\$ 148,911,571 \$ 403,097 \$ 149,314,668 \$			Sum Lines 17 through 22 Line 22 + Line 23	Fuel Expense Recovered Through Intersystem Sales Total Fuel Costs Eliminate Avoided Fuel Benefit of SC NEM Adjusted System Fuel costs	21 22 23 24
\$ 550,981,631 477,812,446 275,683,073 270.397.992	\$ 27,095,789 \$ 47,647,266 21,132,678 25.990,419	\$ 54,524,729 51,824,581 25,048,343 22,338,548	65,745,180 \$ 53,479,451 24,488,031 27,410,873	\$ 46,565,021 \$ 50,924,788 23,891,329 28.218.162	\$ 18,858,698 45,349,136 24,723,353 24.766.503	\$ 22,849,825 9 35,846,443 20,763,903 24,889,788		Coal Gas Nuclear Fuel Purchased Power	17 18 19 20
12 Month Total	September 2019	August 2019	July 2019	June 2019	May 2019	April 2019	Reference	Description	Line No.

Note  $oldsymbol{1}$  - Equals total NEM avoided fuel benefit less portion included in DERP NEM Incentive.

### McGee Exhibit 4 Page 1a of 3 DOCKET NO 2018-3-E

## DUKE ENERGY CAROLINAS, LLC

### SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - RESIDENTIAL ACTUAL COSTS AND REVENUES JUNE 2017 - MAY 2018

33	31	28 29 30	23 24 25 26 27	19 20 21 22	Line No.	15 16 17 18	12 13 14	7 8 9 10 11	ω 4 υ ο	Line No.	Line No. 1 2
Cumulative SC Residential Environmental Costs (Over) / Under Recovery	SC Residential Environmental Costs (Over) / Under Recovery	SC Residential kWh Sales SC Residential Environmental Cost Incurred (¢ per Kwh) SC Residential Environmental Cost Billed (¢ per Kwh)	Total System KWH Sales Environmental System Costs Incurred (¢ per Kwh) SC Retail Sales kWh SC Environmental Costs Residential Environmental Cost Allocated by Firm CP	Total Reagents Emission Allowances Off-System Sales Net Environmental Costs	Description	SC Residential Environmental Costs (Over) / Under Recovery (Over) / Under Cumulative Balance May 2017 Accounting Adjustment(s) Cumulative SC Residential Environmental Costs (Over) / Under Recovery	SC Residential kWh Sales SC Residential Environmental Cost Incurred (¢ per Kwh) SC Residential Environmental Cost Billed (¢ per Kwh)	Total System KWH Sales Environmental System Costs Incurred (¢ per Kwh) SC Retail Sales kWh SC Environmental Costs Residential Environmental Cost Allocated by Firm CP	Total Reagents Emission Allowances Off-System Sales Net Environmental Costs	Description	2016 Firm Coincident Peak CP
Line 31 + Line 32 + Prior Month Cum Bal	(-Line 30 + Line 29)*Line 28 /100	Line 27 / Line 28 * 100 Company records	Exhbit 2 Line 22 / Line 23* 100 Exhbit 2 Line 24 * Line 25/ 100 Line 26 * Line 2	Sum Lines 19 thru 21	Reference	(-Line 14 + Line 13)*Line 12 /100 Prior Year Annual Filing Line 15 + Line 17 + Prior Month Cum Bal	Line 11 / Line 12 * 100 Company records	Exhbit 2 Line 6 / Line 7 * 100 Exhbit 2 Line 8 * Line 9 / 100 Line 10 * Line 2	Sum Lines 3 thru 5	Reference	ık CP % Residential 42.11%
₩	↔	2	7,05 1,68 \$	w w	De	w w w	5	7,38 1,84 \$	w w		
(1,248,638) \$	(39,019) \$	547,216,632 0.0260 0.0331	7,057,410,509 0.0200 1,689,291,924 337,508 \$ 142,110 \$	1,416,918 \$ 828 (7,727) 1,410,019 \$	December 2017	89,738 \$ (1,849,965) (1,760,227) \$	527,907,707 0.0407 0.0237	7,382,797,262 0.0277 1,840,787,327 510,270 \$ 214,852 \$	2,309,719 \$ (172,533) (90,659) 2,046,527 \$	June 2017	
(1,143,089) \$	105,548 \$	825,188,829 0.0459 0.0331	8,697,594,873 0.0486 2,004,246,555 974,955 \$ 378,686 \$	4,250,962 \$ 384 (20,446) 4,230,900 \$	January 2018	197,091 \$ (1,563,136) \$	665,587,625 0.0533 0.0237	8,213,697,211 0.0420 2,004,626,644 842,726 \$ 354,835 \$	3,512,201 \$ 529 (59,768) 3,452,962 \$	July 2017	
(1,207,744) \$	(64,654) \$	610,886,058 0.0225 0.0331	7,453,819,034 0.0198 1,791,706,347 354,130 \$ 137,549 \$	1,514,324 \$ 583 (41,662) 1,473,245 \$	February 2018	197,709 \$ (1,365,426) \$	663,376,599 0.0535 0.0237	8,242,499,300 0.0412 2,045,712,681 842,948 \$ 354,929 \$	3,459,379 \$ 748 (63,757) 3,396,370 \$	August 2017	2017 Firm Coinc
(1,206,747) \$	997 \$	439,248,457 0.0333 0.0331	6,443,723,578 0.0247 1,524,004,658 376,887 \$ 146,388 \$	1,605,428 \$ 4,193 (16,082) 1,593,538 \$	March 2018	93,949 \$ (1,271,477) \$	570,214,307 0.0402 0.0237	7,632,543,035 0.0285 1,907,259,402 544,084 \$ 229,090 \$	2,208,332 \$ 723 (31,721) 2,177,334 \$	September 2017	2017 Firm Coincident Peak CP %
(1,223,501) \$	(16,754) \$	436,659,749 0.0293 0.0331	6,581,829,396 0.0208 1,584,758,862 328,980 \$ 127,780 \$	1,382,386 \$ 330 (16,396) 1,366,320 \$	April 2018	47,728 \$ (1,223,749) \$	441,642,074 0.0385 0.0277	6,668,383,285 0.0242 1,664,779,554 403,599 \$ 169,938 \$	1,636,146 \$ (4,667) (14,835) 1,616,644 \$	October 2017	Residential 38.84%
(1,147	75	409,696,777 0.0516 0.0331	6,581,962,808 0.0332 1,640,451,950 544,308 211,417	2,249,663 (43,802) (21,941) 2,183,920	May 2018	14,131 (1,209,619)	411,775,311 0.0365 0.0331	6,410,573,998 0.0222 1,604,311,093 356,796 150,231	1,426,552 350 (1,203) 1,425,699	November 2017	
(1,147,694) \$	75,807 \$	777 516 331	308 332 350 308 \$ 117 \$	63 \$ 602) 41)		.9)	31 55	98 22 23 96 31	9 3		

# SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - RESIDENTIAL ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2018

6,580,779,714 (0.0141)					Exhibit 3 Line 47 / Line 48 * 100	SC Projected Residential Sales (October 2018-September 2019) SC Residential Environmental Increment / (Decrement) (¢ per kwh)	48 SC 49 SC
(926,787)	(920,057) \$	(984,979) \$	(1,070,588) \$	↔	Line 46 + Prior Month Cum Bal	Cumulative SC Residential Environmental Costs (Over) / Under Recovery	47 Cu
(6,730)	64,922 \$	85,609 \$	77,106 \$	❖	(-Line 45 + Line 44) * Line 43 /100	SC Residential Environmental Costs (Over) / Under Recovery	46 SC
590,387,723 0.0320 0.0331	645,547,468 0.0432 0.0331	638,400,761 0.0465 0.0331	514,956,305 0.0481 0.0331		Line 42 / Line 43 * 100 Docket No. 2017-3-E	SC Projected Residential kWh Sales SC Residential Environmental Cost Incurred (¢ per Kwh) SC Residential Environmental Cost Billed (¢ per Kwh)	43 SC 44 SC 45 SC
188,688	278,598 \$	296,920 \$	247,556 \$	↔	Line 41 * Line 2	Residential Environmental Cost Allocated by Firm CP	42 Re
7,994,793,000 0.0245 1,986,163,127 485,792	8,409,562,198 0.0349 2,053,956,924 717,272 \$	8,220,497,571 8 0.0386 1,979,919,610 2 764,443 \$	7,397,566,722 8 0.0348 1,829,860,637 1 637,353 \$	\$ 1 7	Exhibit 2 Line 37 / Line 38* 100 Exhibit 2 Line 39 * Line 40/ 100	Total Projected System Sales kwhs (w/solar) Environmental System Costs Incurred (¢ per Kwh) Projected SC Retail Sales kWh SC Environmental Costs	38 Tot 39 Env 40 Pro 41 SC
1,978,964 430 (23,963) 1,955,432	2,978,617 \$ 644 (42,519) 2,936,743 \$	3,204,310 \$ 712 (31,105) 3,173,917 \$	2,586,832 \$ 576 (10,786) 2,576,621 \$	<b>⋄</b> •	Sum Lines 34 thru 36	Total Reagents Emission Allowances Off-System Sales Net Environmental Costs	34 Tot 35 Em 36 Oft 37 Ne
Estimated September 2018	Estimated August 2018	Estimated July 2018	Estimated June 2018		Reference	Description	Line No.
Residential 38.84%	lent Peak CP %	2017 Firm Coincident Peak CP %			ak CP % Residential 42.11%	2016 Firm Coincident Peak CF	Line No. 1 2

### McGee Exhibit 4 Page 2a of 3 DOCKET NO 2018-3-E

## DUKE ENERGY CAROLINAS, LLC

# SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - GENERAL SERVICE/LIGHTING ACTUAL COSTS AND REVENUES JUNE 2017 - MAY 2018

33	31	28 29 30	23 24 25 26 27	19 20 21 22	Line No.	18	15 16	12 13 14	7 8 9 10 11	6 5 4 3	Line No.	Line No. 1 2
Cumulative SC General Service / Lighting Environmental Costs (Over) / Under Recovery	SC General Service / Lighting Environmental Costs (Over) / Under Recovery	SC General Service / Lighting kWh Sales SC General Service / Lighting Environmental Cost Incurred (¢ per Kwh) SC General Service / Lighting Environmental Cost Billed (¢ per Kwh)	Total System KWH Sales Environmental System Costs Incurred (¢ per Kwh) SC Retail Sales kWh SC Environmental Costs General Service / Lighting Environmental Cost Allocated by Firm CP	Total Reagents Emission Allowances Off-System Sales Net Environmental Costs	. Description	Cumulative SC General Service / Lighting Environmental Costs (Over) / Under Recovery	SC General Service / Lighting Environmental Costs (Over) / Under Recovery (Over) / Under Cumulative Balance May 2017	SC General Service / Lighting kWh Sales SC General Service / Lighting Environmental Cost Incurred (¢ per Kwh) SC General Service / Lighting Environmental Cost Billed (¢ per Kwh)	Total System KWH Sales Environmental System Costs Incurred (¢ per Kwh) SC Retail Sales kWh SC Environmental Costs General Service / Lighting Environmental Cost Allocated by Firm CP	Total Reagents Emission Allowances Off-System Sales Net Environmental Costs	. Description	201
												6 Firm Coincident Peak CP %
Line 31 + Line 32 + Prior Month Cum Bal	(-Line 30 + Line 29)*Line 28 /100	Line 27 / Line 28 * 100 Company Records	Exhibit 2 Line 22 / Line 23* 100 Exhibit 2 Line 24 * Line 25/ 100 Line 26 * Line 2	Sum Lines 19 thru 21	Reference	Line 15 + Line 17 + Prior Month Cum Bal	(-Line 14 + Line 13)*Line 12 /100 Prior Year Annual Filing	Line 11 / Line 12 * 100 Company records	Exhibit 2 Line 6 / Line 7 * 100 Exhibit 2 Line 8 * Line 9 / 100 Line 10 * Line 2	Sum Lines 3 thru 5	Reference	General Service / Lighting 27.93%
❖	⋄	4	7,0 1,6 \$	ۍ پ	٥	<b>.</b>	<b>«</b>	б	7,3 1,8 \$	√ √		
15,368 \$	(85,650) \$	433,568,983 0.0217 0.0415	7,057,410,509 0.0200 1,689,291,924 337,508 \$ 94,281 \$	1,416,918 \$ 828 (7,727) 1,410,019 \$	December 2017	(352,904) \$	109,641 \$ (462,545)	506,172,821 0.0282 0.0065	7,382,797,262 0.0277 1,840,787,327 510,270 \$	2,309,719 \$ (172,533) (90,659) 2,046,527 \$	June 2017	
84,756 \$	69,388 \$	495,802,604 0.0555 0.0415	8,697,594,873 0.0486 2,004,246,555 974,955 \$ 275,146 \$	4,250,962 \$ 384 (20,446) 4,230,900 \$	January 2018	(152,656) \$	200,248 \$	540,981,553 0.0435 0.0065	8,213,697,211 0.0420 2,004,626,644 842,726 \$ 235,412 \$	3,512,201 \$ 529 (59,768) 3,452,962 \$	July 2017	
(4,256) \$	(89,012) \$	455,308,603 0.0220 0.0415	7,453,819,034 0.0198 1,791,706,347 354,130 \$ 99,941 \$	1,514,324 \$ 583 (41,662) 1,473,245 \$	February 2018	47,046 \$	199,702 \$	550,338,633 0.0428 0.0065	8,242,499,300 0.0412 2,045,712,681 842,948 \$ 235,474 \$	3,459,379 \$ 748 (63,757) 3,396,370 \$	August 2017	2017 Firm Coi
(66,695) \$	(62,440) \$	406,753,337 0.0261 0.0415	6,443,723,578 0.0247 1,524,004,658 376,888 \$ 106,363 \$	1,605,428 \$ 4,193 \$ (16,082) \$ 1,593,538 \$	March 2018	164,232 \$	117,186 \$	535,402,529 0.0284 0.0065	7,632,543,035 0.0285 1,907,259,402 544,084 \$ 151,987 \$	2,208,332 \$ 723 (31,721) 2,177,334 \$	September 2017	2017 Firm Coincident Peak CP %
(147,979) \$	(81,283) \$	419,580,867 0.0221 0.0415	6,581,829,396 0.0208 1,584,758,862 328,979 92,843	1,382,386 \$ 330 (16,396) 1,366,320 \$	April 2018	178,975 \$	14,743 \$	460,342,322 0.0245 0.0213	6,668,383,285 0.0242 1,664,779,554 403,599 \$ 112,744 \$	1,636,146 \$ (4,667) (14,835) 1,616,644 \$	October 2017	General Service / Lighting 28.22%
\$ (178,848) \$	\$ (30,869) \$	444,529,906 0.0346 0.0415	6,581,962,808 0.0332 1,640,451,950 \$ 544,308 \$ \$ 153,611 \$	\$ 2,249,663 \$ (43,802) (21,941) \$ 2,183,920 \$	May 2018	\$ 101,017	\$ (77,957)	429,859,995 0.0232 0.0413	6,410,573,998 0.0222 1,604,311,093 \$ 356,796 \$ 99,669	\$ 1,426,552 350 (1,203) \$ 1,425,699	November 2017	ighting
(178,848)	\$ 283,697	5,678,642,153	87,366,834,289 21,301,936,997 6,417,192 1,800,012	\$ 26,972,010 (212,334) (386,198) \$ 26,373,478	Twelve Months Ended May 2018							

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DOCKET NO 2018-3-E

## **DUKE ENERGY CAROLINAS, LLC**

### SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-GENERAL SERVICE/ LIGHTING ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2018

5,838,912,144 (0.0058)					Exhibit 3 Line 47 / Line 48 * 100	SC Projected General Service / Lighting Sales (October 2018 - September 2019) SC General Service / Lighting Environmental Increment / (Decrement) (¢ per Kwh)	48 49
(341,351)	(247,483) \$	(218,772) \$	(208,531) \$	❖	Line 46 + Prior Month Cum Bal	Cumulative SC General Service / Lighting Environmental Costs (Over) / Under Recovery	47
(93,868)	(28,711) \$	(10,241) \$	(29,683) \$	❖	(-Line 45 + Line 44) * Line 43 /100	SC General Service / Lighting Environmental Costs (Over) / Under Recovery	46
556,543,499 0.0246 0.0415	556,952,933 0.0363 0.0415	544,523,558 0.0396 0.0415	504,947,004 0.0356 0.0415		Line 42 / Line 43 * 100 Docket No. 2017-3-E	SC Projected General Service / Lighting kWh Sales SC General Service / Lighting Environmental Cost Incurred (¢ per Kwh) SC General Service / Lighting Environmental Cost Billed (¢ per Kwh)	43 44 45
0.0245 1,986,163,127 485,792 137,097	0.0349 2,053,956,924 717,272 \$ 202,424 \$	0.0386 1,979,919,610 2, 764,443 \$ 215,737 \$	0.0348 1,829,860,637 1, 637,353 \$ 179,870 \$	\$ \$ <mark>,</mark>	Line 37 / Line 38* 100  Line 39 * Line 40/ 100  Line 41 * Line 2	Environmental System Costs Incurred (¢ per Kwh) Projected SC Retail Sales kWh SC Environmental Costs General Service / Lighting Environmental Cost Allocated by Firm CP	39 40 41 42
7,994,793,000	8,409,562,198	8,220,497,571 8,		7,		Total Projected System Sales kwhs (w/solar)	38
1,978,964 430 (23,963) 1,955,432	2,978,617 \$ 644 (42,519) 2,936,743 \$	3,204,310 \$ 712 (31,105) 3,173,917 \$	2,586,832 \$ 576 (10,786) 2,576,621 \$	₩ W	Sum Lines 34 thru 36	Total Reagents Emission Allowances Off-System Sales Net Environmental Costs	34 35 36 37
Estimated September 2018	Estimated August 2018	Estimated L July 2018	Estimated E June 2018		Reference	Description Description	Line No.
2017 Firm Coincident Peak CP % <b>General Service /Lighting</b> 28.22%	ent Peak CP % <b>Ge</b>	2017 Firm Coincide	<b>N</b> .		2016 Firm Coincident Peak CP % <b>General Service / Lighting</b> 27.93%		Line No. 1 2

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## DUKE ENERGY CAROLINAS, LLC

## SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-INDUSTRIAL ACTUAL COSTS AND REVENUES JUNE 2017 - MAY 2018

33	31 32	28 29 30	23 24 25 26 27	19 20 21 22	Line No.	18	15 16 17	12 13 14	7 8 9 10 11	ω 4 υ ο	Line No	Line No. 1 2
Cumulative SC Industrial Environmental Costs (Over) / Under Recovery	SC Industrial Environmental Costs (Over) / Under Recovery Accounting Adjustment(s)	SC Industrial kWh Sales SC Industrial Environmental Cost Incurred (¢ per Kwh) SC Industrial Environmental Cost Billed (¢ per Kwh)	Total System KWH Sales Environmental System Costs Incurred (¢ per Kwh) SC Retail Sales kWh SC Environmental Costs Industrial Environmental Cost Allocated by Firm CP	Total Reagents Emission Allowances Off-System Sales Net Environmental Costs	. Description	Cumulative SC Industrial Environmental Costs (Over) / Under Recovery	SC Industrial Environmental Costs (Over) / Under Recovery (Over) / Under Cumulative Balance May 2017  Accounting Adjustment(s)	SC Industrial kWh Sales SC Industrial Environmental Cost Incurred (¢ per Kwh) SC Industrial Environmental Cost Billed (¢ per Kwh)	Total System KWH Sales Environmental System Costs Incurred (¢ per Kwh) SC Retail Sales kWh SC Environmental Costs Industrial Environmental Cost Allocated by Firm CP	Total Reagents Emission Allowances Off-System Sales Net Environmental Costs	). Description	. 2016 Firm Coincident Peak CP %
Line 31 + Line 32 + Prior Month Cum Bal	(-Line 30 + Line 29)*Line 28 /100	Line 27 / Line 28 * 100 Company Records	Exhibit 2 Line 22 / Line 23* 100 Exhibit 2 Line 24 * Line 25/ 100 Line 26 * Line 2	Sum Lines 19 thru 21	Reference	Line 15 + Line 17 + Prior Month Cum Bal	(-Line 14 + Line 13)*Line 12 /100 Prior Year Annual Filing	Line 11 / Line 12 * 100 Company Records	Exhibit 2 Line 6 / Line 7 * 100 Exhibit 2 Line 8 * Line 9 / 100 Line 10 * Line 2	Sum Lines 3 thru 5	Reference	nt Peak CP % Industrial 29.96%
\$ (23,262)	\$ (88,054)	708,506,309 0.0143 0.0267	7,057,410,509 0.0200 1,689,291,924 \$ 337,508 \$ 101,117	\$ 1,416,918 828 (7,727) \$ 1,410,019	December 2017	\$ (525,140)	\$ 148,036 \$ (673,176)	806,706,799 0.0190 0.0006	7,382,797,262 0.0277 1,840,787,327 \$ 510,270 \$ 152,876	\$ 2,309,719 (172,533) (90,659) \$ 2,046,527	June 2017	
\$ 115,432 \$	\$ 138,694 \$	683,255,122 0.0470 0.0267	8,697,594,873 0.0486 2,004,246,555 \$ 974,955 \$ \$ 321,123 \$	\$ 4,250,962 \$ 384 (20,446) \$ 4,230,900 \$	January 2018	\$ (277,449) \$	\$ 247,691 \$	798,057,466 0.0316 0.0006	8,213,697,211 0.0420 2,004,626,644 \$ 842,726 \$ \$ 252,479 \$	\$ 3,512,201 \$ 529 (59,768) \$ 3,452,962 \$	July 2017	
38,361 \$	(77,071) \$	725,511,686 0.0161 0.0267	7,453,819,034 0.0198 1,791,706,347 354,130 \$ 116,641 \$	1,514,324 \$ 583 (41,662) 1,473,245 \$	February 2018	(29,896) \$	247,554 \$	831,997,449 0.0304 0.0006	8,242,499,300 0.0412 2,045,712,681 842,948 \$ 252,546 \$	3,459,379 \$ 748 (63,757) 3,396,370 \$	August 2017	2017 Firm Coir
(18,530) \$	(56,891) \$	678,002,864 0.0183 0.0267	6,443,723,578 0.0247 1,524,004,658 376,888 \$ 124,136 \$	1,605,428 \$ 4,193 (16,082) 1,593,538 \$	March 2018	128,300 \$	158,196 \$	801,642,566 0.0203 0.0006	7,632,543,035 0.0285 1,907,259,402 544,084 \$ 163,006 \$	2,208,332 \$ 723 (31,721) 2,177,334 \$	September 2017	2017 Firm Coincident Peak CP %
(104,687) \$	(86,157) \$	728,518,246 0.0149 0.0267	6,581,829,396 0.0208 1,584,758,862 328,979 \$ 108,357 \$	1,382,386 \$ 330 (16,396) 1,366,320 \$	April 2018	160,518 \$	32,219 \$	762,795,158 0.0159 0.0116	6,668,383,285 0.0242 1,664,779,554 403,599 \$ 120,918 \$	1,636,146 \$ (4,667) (14,835) 1,616,644 \$	October 2017	Industrial 32.94%
(135,329) \$	(30,642) \$	786,225,267 0.0228 0.0267	6,581,962,808 0.0332 1,640,451,950 544,308 \$ 179,280 \$	2,249,663 \$ (43,802) (21,941) 2,183,920 \$	May 1 2018 E	64,792	(95,726)	762,675,787 0.0140 0.0266	6,410,573,998 0.0222 1,604,311,093 356,796 106,895	1,426,552 350 (1,203) 1,425,699	November 2017	
(135,329)	537,847	9,073,894,719	87,366,834,289 21,301,936,997 \$ 6,417,192 \$ 1,999,375	26,972,010 (212,334) (386,198) 26,373,478	Twelve Months Ended May 2018							

## SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-INDUSTRIAL ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2018

48 49	47	46	43 44 45	40 41 42		34 35 36 37	Line No.	Line No. 1 2
SC Projected Industrial Sales (October 2018 - September 2019) SC Industrial Environmental Increment / (Decrement) (¢ per Kwh)	Cumulative SC Industrial Environmental Costs (Over) / Under Recovery	SC Industrial Environmental Costs (Over) / Under Recovery	SC Projected Industrial kWh Sales SC Industrial Environmental Cost Incurred (¢ per Kwh) SC Industrial Environmental Cost Billed (¢ per Kwh)	Projected SC Retail Sales kWh SC Environmental Costs Industrial Environmental Cost Allocated by Firm CP	Total Projected System Sales kwhs w/solar Environmental System Costs Incurred (¢ per Kwh)	Total Reagents Emission Allowances Off-System Sales Net Environmental Costs	Description	
vh)						S		2016 Firm Coincident Peak CP %
Exhibit 3 Line 47 / Line 48 * 100	Line 46 + Prior Month Cum Bal	(-Line 45 + Line 44)*Line 43 /100	Line 42 / Line 43 * 100 Docket No. 2017-3-E	Line 39 * Line 40/ 100 Line 41 * Line 2	Line 37 / Line 38* 100	Sum Lines 34 thru 36	Reference	Industrial 29.96%
	❖	\$	80	1,82 \$ \$	7,39	ۍ ک	Est	
	(141,661) \$	(6,332) \$	809,957,328 0.0259 0.0267	1,829,860,637 1 637,353 \$ 209,926 \$		2,586,832 \$ 576 (10,786) 2,576,621 \$	Estimated June 2018	
	(102,672) \$	38,989 \$	796,995,291 0.0316 0.0267	1,979,919,610 764,443 \$ 251,786 \$	8,220,497,571 0.0386	3,204,310 \$ 712 (31,105) 3,173,917 \$	Estimated July 2018	2017 Firm Coincident Peak CP %
	(93,762) \$	8,911 \$	851,456,524 0.0277 0.0267	2,053,956,924 717,272 \$ 236,250 \$	8,409,562,198 0.0349	2,978,617 \$ 644 (42,519) 2,936,743 \$	Estimated August 2018	dent Peak CP %
9,256,345,589 (0.0017)	(157,830)	(64,068)	839,231,906 0.0191 0.0267	1,986,163,127 485,792 160,007	7,994,793,000 0.0245	1,978,964 430 (23,963) 1,955,432	Estimated September 2018	Industrial 32.94%

## SOUTH CAROLINA RETAIL FUEL CASE PROJECTED BILLING PERIOD ENVIRONMENTAL COSTS FOR THE 12 MONTHS ENDING OCTOBER 1, 2018 TO SEPTEMBER 30, 2019

28 29 30	24 25 26 27	20 21 22 22 23	10 11 11 12 13 14 15 16 17 18	Line No.  Line No.  4  5  8  9
SC Enviromental Costs ¢/kWh Residential General Service / Lighting Industrial	Projected SC Retail Sales kWh (October 2018 - September 2019) Residential E General Service / Lighting E Industrial E Total SC	SC Environmental Costs Allocated on Firm CP kWs Residential General Service / Lighting Industrial Total SC	Projected SC Retail Sales kWh (October 2018 - September 2019 Exhibit 3 SC Environmental Costs  Description  Description  Total Reagents Emission Allowances Estimated Off-system Sales Net Environmental Costs  Total Projected System Sales kwhs (w/solar) Environmental System Costs Incurred (¢ per Kwh) Projected SC Retail Sales kWh (October 2018 - September 2019 Exhibit 3 SC Environmental Costs  Line 17 *	Residential General Service / Lighting Industrial Total SC  Description  Total Reagents Emission Allowances Estimated Off-system Sales Net Environmental Costs Total Projected System Sales kwhs (w/solar) Environmental System Costs Incurred (Coner Kwh)
Line 20 / Line 24 * 100 Line 21 / Line 25 * 100 Line 22 / Line 26 * 100	er 2019) Exhibit 3 Exhibit 3 Exhibit 3 Sum Lines 24 through 26	Total Line 19 * Line 1 Total Line 19 * Line 2 Total Line 19 * Line 3 Sum Lines 20 through 22	2019 Exhibit 3 Line 9 * Line 10 /100  Reference  Reference  Sum Lines 12 thru 14 Exhibit 3 Line 15 / Line 16 *100 2019 Exhibit 3 Line 17 * Line 18 /100	2017 Firm Coincident Peak (CP) KWs 1,617,566 1,175,294 1,371,687 4,164,547  Reference  Reference  Sum Lines 4 through 6 Exhibit 3 Line 7 / Line 8 *100
			\$ 328,650 \$ 328,650 \$ 328,650 <b>April</b> <b>2019</b> \$ 892,752 207 (5,194) \$ 887,766 6,290,451,974 0.0141 1,604,962,893 \$ 226,507	CP %  38.84%  28.22%  32.94%  100.00%  October  2018  \$ 1,304,820 293 (4,499) \$ 1,300,615 6,499,954,760 0 0 0 0 0 0 0 0
			\$ 236,038 \$ 236,038 May 2019 \$ 751,706 176 (11,656) \$ 740,226 6,684,011,828 0.0111 1,696,282,308 \$ 187,856	November 2018 \$ 950,465 218 (3,771) \$ 946,913 6,602,598,785 0 0 0 1 4 3
			<u> </u>	December 2018 \$ 2,170,310 458 (18,388) \$ 2,152,379 7,160,709,598
				January 2019 \$ 3,562,820 : 760 (136,972) \$ 3,426,609 : \$ 3,426,609 :
				February 2019 \$ 3,033,309 \$ (131,362) \$ 2,902,602 7,579,000,897 0 0383
	1	I		March 2019 \$ 1,371,183 \$ 1,372,061 6,739,338,881 0 0195
0.0307 0.0251 0.0185	6,580,779,714 5,838,912,144 9,256,345,589 21,676,037,448	\$ 2,020,961 \$ 1,468,394 \$ 1,713,764 \$ 5,203,119	12 Month Total  \$ 21,546,462 4,948 (454,200) \$ 21,097,210 87,318,030,105 21,676,037,448 \$ 5,203,119	

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## **DUKE ENERGY CAROLINAS, LLC**

# SOUTH CAROLINA RETAIL FUEL CASE PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL ACTUAL COSTS AND REVENUES JUNE 2017 - MAY 2018

27 28	24 25 26	19 20 21 22 23	16 17	Line No.	13 14 15	10 11 12	9 8 7	4 3 2	Line No.	Line No.
SC Capacity Related (Over) / Under Recovery Cumulative SC Residential Capacity Related (Over) / Under Recovery	SC Residential kWh Sales SC Residential Capacity Related Cost Incurred (¢/kWh) SC Residential Billed (¢/kWh)	Total System kWh Sales Capacity Related System Costs Incurred (¢/kWh) SC Retail Sales kWh SC Capacity Related Cost Incurred Residential PURPA Capacity Related Cost Allocated by Firm CP	Total PURPA Purchased Power Capacity Costs Firm Natural Gas Transportation and Storage Costs Total Capacity Related Costs	Description	SC Capacity Related (Over) / Under Recovery (Over) / Under Cumulative Balance May 2017 Cumulative SC Residential Capacity Related (Over) / Under Recovery	SC Residential kWh Sales SC Residential Capacity Related Cost Incurred (¢/kWh) SC Residential Billed (¢/kWh)	Total System kWh Sales Capacity Related System Costs Incurred (¢/kWh) SC Retail Sales kWh SC Capacity Related Cost Incurred Residential Capacity Related Cost Allocated by Firm CP	Total PURPA Purchased Power Capacity Costs Firm Natural Gas Transportation and Storage Costs Total Capacity Related Costs	Description	2016 Firm Coincident Peak
(-Line 26 + Line 25)*Line 24 / 100 Line 27 + Prior Month Cum Bal	Line 23 / Line 24 * 100 Company Records	Exhibit 2 Line 18 / Line 19* 100 Exhibit 2 Line 20 * Line 21 / 100 Line 22 * Line 1		Reference	(-Line 12 + Line 11)* Line 10 / 100 Prior Year Annual Filing Line 13 + Prior Month Cum Bal	Line 9 / Line 10 * 100 Company Records	Exhibit 2 Line 4 / Line 5* 100 Exhibit 2 Line 6 * Line 7 / 100 Line 8 * Line 1	Line 2 + Line 3	Reference	: Peak CP % Residential 42.11%
\$ (324 \$ 253	547,216,632 0.0591 0.1183	7,057,410,509 0.0454 1,689,291,924 \$ 767,614 \$ 323,209		December 2017	\$ (190 \$ 386 \$ 195	527,907,707 0.0435 0.0797	7,382,797,262 0.0297 1,840,787,327 \$ 545,893 \$ 229,852	\$ 2,189,400 \$ 2,189,400	June 2017	
(324,148) \$ 253,910 \$	216,632 0.0591 0.1183	₩ ₩		er	(190,890) \$ 386,095 195,205 \$	907,707 0.0435 0.0797	<b>↔ ↔</b>	9,400 \$ 9,400 \$		
(650,749) \$ (396,839) \$	825,188,829 0.0394 0.1183	3,630,103 \$ 8,697,594,873 0.0418 2,004,246,555 837,893 \$ 325,449 \$		January 2018	141,109 \$ 336,314 \$	665,587,625 0.1009 0.0797	8,213,697,211 0.0796 2,004,626,644 1,594,994 \$ 671,582 \$	6,535,280 \$ 6,535,280 \$	July 2017	
(378,572) \$ (775,411) \$	610,886,058 0.0563 0.1183	7,453,819,034 0.0494 1,791,706,347 885,927 \$ 344,106 \$		February 2018	153,106 \$ 489,420 \$	663,376,599 0.1028 0.0797	8,242,499,300 0.0792 2,045,712,681 1,619,300 \$ 681,817 \$	6,524,417 \$ 6,524,417 \$	August 2017	2017 Firm Co
(143,790) (919,201)	439,248,457 0.0856 0.1183	4,091,298 6,443,723,578 0.0635 1,524,004,658 967,632 375,841	1,048,160 3,043,138	March 2018	(66,180) 423,240	570,214,307 0.0681 0.0797	7,632,543,035 0.0483 1,907,259,402 922,158 388,281	3,690,328 3,690,328	September 2017	2017 Firm Coincident Peak CP %
\$ (21,209) \$ \$ (940,410) \$	436,659,749 0.1134 0.1183	6,581,829,396 0.0805 1,584,758,862 \$ 1,275,340 \$ 495,359	1,126,843 4,169,903	April 2018	\$ 219,532 S \$ 642,772	441,642,074 0.1457 0.0960	6,668,383,285 0.0918 1,664,779,554 \$ 1,528,421 \$ \$ 643,552	\$ 2,965,616 \$ 3,156,576 \$ 6,122,192 \$	October 2017	Residential 38.84%
\$ (27,234) \$ \$ (967,644) \$	409,696,777 0.1117 0.1183	6,581,962,808 0.0718 1,640,451,950 \$ 1,177,707 \$ \$ 457,437 \$	1,089,472 3,635,827	May 2018	\$ (64,714) \$ 578,058	411,775,311 0.1024 0.1181	6,410,573,998 0.0624 1,604,311,093 \$ 1,001,308 \$ 421,607	\$ 1,128,821 2,872,247 \$ 4,001,068	November 2017	
(1,353,739) (967,644)	6,549,400,125	87,366,834,289 87,366,834,289 21,301,936,997 13,124,189 5,358,092		Twelve Months Ended May 2018						

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## **DUKE ENERGY CAROLINAS, LLC**

# SOUTH CAROLINA RETAIL FUEL CASE PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2018

6,580,779,714 (0.0136)					Exhibit 3 Line 41 / Line 42* 100	SC Projected Residential Sales (October 2018-September 2019) SC Residential Capacity Related Increment / (Decrement) (¢/kWh)	42 43	
5,682 (893,121)	(16,184) \$ (898,803) \$	(8,357) \$ (882,619) \$	93,382 \$ (874,262) \$	ቊ ቊ	(-Line 39 + Line 38)*Line 37 /100 Line 40 + Prior Month Cum Bal	SC Capacity Related (Over) / Under Recovery Cumulative SC Residential Capacity Related (Over) / Under Recovery	40 41	
590,387,723 0.1193 0.1183	645,547,468 0.1158 0.1183	638,400,761 0.1170 0.1183	514,956,305 0.1364 0.1183		Line 36 / Line 37 * 100 Docket No. 2017-3-E	SC Projected Residential kWh Sales SC Residential Capacity Related Cost Incurred (¢/kWh) SC Residential Billed (¢/kWh)	37 38 39	
7,994,793,000 0.0913 1,986,163,127 1,812,786 704,111	8,409,562,198 0.0937 2,053,956,924 1,924,493 \$ 747,499 \$	8,220,497,571 0.0971 1,979,919,610 1,922,876 \$ 746,871 \$	7,397,566,722 0.0989 1,829,860,637 1,808,834 \$ 702,575 \$	~ ~	Exhibit 2 Line 31 / Line 32* 100 Exhibit 2 Line 33 * Line 34 / 100 Line 35 * Line 1	Total System kWh Sales Capacity Related System Costs Incurred (¢/kWh) SC Retail Sales kWh SC Capacity Related Cost Incurred Residential Capacity Related Cost Allocated by Firm CP	32 33 34 36	
2,076,724 5,220,184 7,296,908	3,341,130 \$ 4,538,367 7,879,496 \$	3,517,004 \$ 4,466,654 7,983,658 \$	2,553,717 \$ 4,758,845 7,312,562 \$	<b>⋄</b> •	Line 29 + Line 30	Total PURPA Purchased Power Capacity Costs Firm Natural Gas Transportation and Storage Costs Total Capacity Related Costs	29 30 31	
Estimated September 2018	Estimated August 2018	Estimated July 2018	Estimated June 2018		Reference	Description	Line No.	ı
Residential 38.84%	2017 Firm Coincident Peak CP %	2017 Firm Cc			t Peak CP % Residential 42.11%	2016 Firm Coincident Peak CP %	Line No. 1	ı

### McGee Exhibit 6 Page 2a of 3 DOCKET NO 2018-3-E

## **DUKE ENERGY CAROLINAS, LLC**

# SOUTH CAROLINA RETAIL FUEL CASE PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE/ LIGHTING ACTUAL COSTS AND REVENUES JUNE 2017 - MAY 2018

Line No.

27 28	24 25 26	19 20 21 22 23	16 17	Line No.	13 14 15	10 11 12	98765	2 2	1 Line No.	Line No.
SC Capacity Related (Over) / Under Recovery Cumulative SC General Service / Lighting Capacity Related (Over) / Under Recovery	SC General Service / Lighting kWh Sales SC General Service / Lighting Capacity Related Cost Incurred (¢/kWh) SC General Service / Lighting Billed (¢/kWh)	Total System kWh Sales Capacity Related System Costs Incurred (¢/kWh) SC Retail Sales kWh SC Capacity Related Cost Incurred General Service / Lighting Capacity Related Cost Allocated by Firm CP	Total PURPA Purchased Power Capacity Costs Firm Natural Gas Transportation and Storage Costs Total Canacity Related Costs	Description	SC Capacity Related (Over) / Under Recovery (Over) / Under Cumulative Balance May 2017 Cumulative SC General Service / Lighting Capacity Related (Over) / Under Recovery	SC General Service / Lighting kWh Sales SC General Service / Lighting Capacity Related Cost Incurred (¢/kWh) SC General Service / Lighting Billed (¢/kWh)	Total System kWh Sales Capacity Related System Costs Incurred (¢/kWh) SC Retail Sales kWh SC Capacity Related Cost Incurred General Service / Lighting Capacity Related Cost Allocated by Firm CP	Total PURPA Purchased Power Capacity Costs Firm Natural Gas Transportation and Storage Costs Total Capacity Related Costs	Description	
(-Line 26 + Line 25)*Line 24 / 100 Line 27 + Prior Month Cum Bal	Line 23 / Line 24 * 100 Company Records	Exhibit 2 Line 18 / Line 19* 100 Exhibit 2 Line 20 * Line 21 / 100 Line 22 * Line 1	line 16 + line 17	Reference	(-Line 12 + Line 11)* Line 10 / 100 Prior Year Annual Filing Line 13 + Prior Month Cum Bal	Line 9 / Line 10 * 100 Company Records	Exhibit 2 Line 4 / Line 5* 100 Exhibit 2 Line 6 * Line 7 / 100 Line 8 * Line 1	Line 2 + Line 3		ak CP % General Service / Lighting
\$ (201,363) \$ \$ 667,171 \$	433,568,983 0.0495 0.0959	7,057,410,509 0.0454 1,689,291,924 767,614 214,430	\$ 848,469 \$ 2,358,419 \$ 3,206,888 \$	December 2017	\$ (14,544) \$ \$ 242,847 \$ 228,303 \$	506,172,821 0.0301 0.0330	7,382,797,262 0.0297 1,840,787,327 \$ 545,893 \$ \$ 152,493 \$	\$ 2,189,400 \$ \$ 2,189,400 \$	June 2017	
(239,010) \$ 428,161 \$	495,802,604 0.0477 0.0959	8,697,594,873 0.0418 2,004,246,555 837,893 236,465	1,196,326 \$ 2,439,779	January 2018	267,030 \$ 495,333 \$	540,981,553 0.0824 0.0330	8,213,697,211 0.0796 2,004,626,644 1,594,994 \$ 445,554 \$	6,535,280 \$ 6,535,280 \$	July 2017	
(186,620) \$ 241,541 \$	455,308,603 0.0549 0.0959	7,453,819,034 0.0494 1,791,706,347 885,927 250,021	1,251,488 \$ 2,434,128 3 685 616 \$	February 2018	270,732 \$ 766,066 \$	550,338,633 0.0822 0.0330	8,242,499,300 0.0792 2,045,712,681 1,619,300 \$ 452,344 \$	6,524,417 \$ 6,524,417 \$	August 2017	2017 Firm Co
(116,996) \$ 124,546 \$	406,753,337 0.0671 0.0959		1,048,160 \$ 3,043,138 4,091,298 \$	March 2018	80,918 \$ 846,983 \$	535,402,529 0.0481 0.0330	7,632,543,035 0.0483 1,907,259,402 922,158 \$ 257,601 \$	3,690,328 \$ 3,690,328 \$		2017 Firm Coincident Peak CP % G
(42,459) \$ 82,086 \$	419,580,867 0.0858 0.0959		1,126,843 \$ 4,169,903 5,296,747 \$	April 2018	152,698 \$ 999,682 \$	460,342,322 0.0927 0.0596	6,668,383,285 0.0918 1,664,779,554 1,528,421 \$ 426,958 \$	2,965,616 \$ 3,156,576 6,122,192 \$	28.22% October 2017	General Service / Lighting
(93,938) \$ (11,852) \$	444,529,906 0.0748 0.0959		1,089,472 \$ 3,635,827 4 775 799 \$	May 2018	(131,148) 868,534	429,859,995 0.0651 0.0956	6,410,573,998 0.0624 1,604,311,093 1,001,308 279,711	1,128,821 2,872,247 4,001,068	November 2017	ing
(254,699) (11,852)	5,678,642,153	87,3 21,3	\$ 29,594,620 24,110,017 \$ 53,704,637	Twelve Months Ended May 2018						

### McGee Exhibit 6 Page 2b of 3 DOCKET NO 2018-3-E

## DUKE ENERGY CAROLINAS, LLC

# SOUTH CAROLINA RETAIL FUEL CASE PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE/ LIGHTING ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2018

42 43	40 41	37 38 39	32 34 35 36	29 30 31	Line No.	Line No.
SC Projected General Service / Lighting Sales (October 2018 - September 2019) SC General Service / Lighting Capacity Related Increment / (Decrement) (¢/kWh)	SC Capacity Related (Over) / Under Recovery Cumulative SC General Service / Lighting Capacity Related (Over) / Under	SC General Service / Lighting kWh Sales SC General Service / Lighting Capacity Related Cost Incurred (¢/kWh) SC General Service / Lighting Billed (¢/kWh)	Total System kWh Sales Capacity Related System Costs Incurred (¢/kWh) SC Retail Sales kWh SC Capacity Related Cost Incurred SC Capacity Related Cost Incurred General Service / Lighting Capacity Related Cost Allocated by Firm CP	Total PURPA Purchased Power Capacity Costs Firm Natural Gas Transportation and Storage Costs Total Capacity Related Costs	Description	
.019) Exhibit 3 :/kWh) Line 41 / Line 42* 100	(-Line 39 + Line 38)*Line 37 /100 Recovery Line 40 + Prior Month Cum Bal	Line 36 / Line 37 * 100 Docket No. 2017-3-E	Exhibit 2 Line 31 / Line 32* 100 Exhibit 2 Line 33 * Line 34 / 100 Line 35 * Line 1	Line 29 + Line 30	Reference	2016 Firm Coincident Peak CP % General Service / Lighting 27.93%
	ۍ ۍ		w w	√ √ √		
	26,234 \$ 14,382 \$	504,947,004 0.1011 0.0959	7,397,566,722 0.0989 1,829,860,637 1,808,834 \$ 510,478 \$	2,553,717 \$ 4,758,845 7,312,562 \$	Estimated June 2018	2017 Firm Cc
	20,465 \$ 34,847 \$	544,523,558 0.0997 0.0959	8,220,497,571 0.0971 1,979,919,610 1,922,876 \$ 542,663 \$	3,517,004 \$ 4,466,654 7,983,658 \$	Estimated July 2018	2017 Firm Coincident Peak CP %
	9,001 \$ 43,848 \$	556,952,933 0.0975 0.0959	8,409,562,198 0.0937 2,053,956,924 1,924,493 \$ 543,119 \$	3,341,130 \$ 4,538,367 7,879,496 \$	Estimated August 2018	General Service / Lighting 28.22%
5,838,912,144 0.0004	(22,131) 21,717	556,543,499 0.0919 0.0959	7,994,793,000 0.0913 1,986,163,127 1,812,786 511,594	2,076,724 5,220,184 7,296,908	Estimated September 2018	hting

### McGee Exhibit 6 Page 3a of 3 DOCKET NO 2018-3-E

## DUKE ENERGY CAROLINAS, LLC

# SOUTH CAROLINA RETAIL FUEL CASE PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - INDUSTRIAL ACTUAL COSTS AND REVENUES JUNE 2017 - MAY 2018

27 28	24 25 26	17 18 19 20 21 22 23	Line No.	13 14 15	10 11 12	2 & 4 & 0 0 7 8 0	Line No.
SC Capacity Related (Over) / Under Recovery Cumulative SC Industrial Capacity Related (Over) / Under Recovery	SC Industrial kWh Sales SC Industrial Capacity Related Cost Incurred (¢/kWh) SC Industrial Billed (¢/kWh)	Firm Natural Gas Transportation and Storage Costs  Total Capacity Related Costs  Total System kWh Sales Capacity Related Costs Incurred (¢/kWh)  SC Retail Sales kWh  SC Capacity Related Cost Incurred Industrial Capacity Related Cost Allocated by Firm CP	Description	SC Capacity Related (Over) / Under Recovery (Over) / Under Cumulative Balance May 2017 Cumulative SC Industrial Capacity Related (Over) / Under Recovery	SC Industrial kWh Sales SC Industrial Capacity Related Cost Incurred (¢/kWh) SC Industrial Billed (¢/kWh)	Total PURPA Purchased Power Capacity Costs Firm Natural Gas Transportation and Storage Costs Total Capacity Related Costs  Total System kWh Sales Capacity Related Costs Incurred (¢/kWh) SC Retail Sales kWh SC Capacity Related Cost Incurred Industrial Capacity Related Cost Allocated by Firm CP	Description
(-Line 26 + Line 25)*Line 24 / 100 Line 27 + Prior Month Cum Bal	Line 23 / Line 24 * 100 Company Records	Line 16 + Line 17  Exhibit 2  Line 18 / Line 19* 100  Exhibit 2  Line 20 * Line 21 / 100  Line 22 * Line 1	Reference	(-Line 12 + Line 11)* Line 10 / 100 Prior Year Annual Filing Line 13 + Prior Month Cum Bal	Line 9 / Line 10 * 100 Company Records	Line 2 + Line 3  Exhibit 2  Line 4 / Line 5* 100  Exhibit 2  Line 6 * Line 7 / 100  Line 8 * Line 1	2016 Firm Coincident Peak CP % Industrial 29.96%
\$ (211,423) \$ \$ 618,153 \$	708,506,309 0.0325 0.0623	2,358,419 3,206,888 7,057,410,509 0.0454 1,689,291,924 767,614 229,976	December 2017	\$ (16,347) \$ \$ 163,635 \$ 147,288 \$	806,706,799 0.0203 0.0223	\$ 2,189,400 \$ 0 \$ 2,189,400 \$ 7,382,797,262 0.0297 1,840,787,327 \$ 545,893 \$ \$ 163,549 \$	June 2017
(149,689) \$ 468,464 \$	683,255,122 0.0404 0.0623	2,439,779 3,636,105 8,697,594,873 0.0418 2,004,246,555 837,893 275,979	January 2018	299,890 \$ 447,178 \$	798,057,466 0.0599 0.0223	6,535,280 \$ 0 0 8,213,697,211 0.0796 2,004,626,644 1,594,994 \$ 477,857 \$	July 2017
(160,194) \$ 308,270 \$	725,511,686 0.0402 0.0623	2,434,128 3,685,616 7,453,819,034 0.0494 1,791,706,347 885,927 291,800	February 2018	299,604 \$ 746,782 \$	831,997,449 0.0583 0.0223	6,524,417 \$ 0 6,524,417 \$ 8,242,499,300 0.0792 2,045,712,681 1,619,300 \$ 485,139 \$	2017 Firm Co  August  2017
(103,685) 204,585	678,002,864 0.0470 0.0623		March 2018	97,511 844,293	801,642,566 0.0345 0.0223	3,690,328 0 3,690,328 7,632,543,035 0.0483 1,907,259,402 922,158 276,277	2017 Firm Coincident Peak CP %  gust September 2017
\$ (33,805) \$ \$ 170,780 \$	728,518,246 0.0577 0.0623	4,169,903 5,296,747 6,581,829,396 0.0805 1,584,758,862 1,275,339 420,062	April 2018	\$ 158,886 \$ \$ 1,003,179 \$	762,795,158 0.0600 0.0392	\$ 2,965,616 \$ 3,156,576 \$ 6,122,192 \$ 6,668,383,285 0.0918 1,664,779,554 \$ 1,528,421 \$ \$ 457,912 \$	Industrial 32.94% October 2017
(101,914) 68,866	786,225,267 0.0493 0.0623	3,635,827 4,725,299 6,581,962,808 0.0718 1,640,451,950 1,177,707 387,904	May 2018	(173,603) 829,576	762,675,787 0.0393 0.0621	1,128,821 2,872,247 4,001,068 6,410,573,998 0.0624 1,604,311,093 1,001,308 299,990	November 2017
\$ (94,769) \$ 68,866	9,073,894,719	87,3	Twelve Months Ended May 2018				

# SOUTH CAROLINA RETAIL FUEL CASE PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - INDUSTRIAL ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2018

9,256,345,589 0.0051					Exhibit 3 Line 41 / Line 42* 100	ober 2018 - September 2019) rement / (Decrement) (¢/kWh)	SC Projected Industrial Sales (October 2018 - September 2019) SC Industrial Capacity Related Increment / (Decrement) (¢/kWh)	42 43
74,240 474,515	103,418 \$ 400,274 \$	136,814 \$ 296,857 \$	91,177 \$ 160,042 \$	<b>\$</b>	(-Line 39 + Line 38)*Line 37 /100 Line 40 + Prior Month Cum Bal	SC Capacity Related (Over) / Under Recovery Cumulative SC Industrial Capacity Related (Over) / Under Recovery	SC Capacity Related (Over) / Under Recovery Cumulative SC Industrial Capacity Related (O	40 41
839,231,906 0.0711 0.0623	851,456,524 0.0744 0.0623	796,995,291 0.0795 0.0623	809,957,328 0.0736 0.0623	<u>∞</u>	Line 36 / Line 37 * 100 Docket No. 2017-3-E	st Incurred (¢/kWh)	SC Projected Industrial kWh Sales SC Industrial Capacity Related Cost Incurred (¢/kWh) SC Industrial Billed (¢/kWh)	37 38 39
7,994,793,000 0.0913 1,986,163,127 1,812,786 597,082	8,409,562,198 0.0937 2,053,956,924 1,924,493 \$ 633,875 \$	8,220,497,571 0.0971 1,979,919,610 1,922,876 \$ 633,342 \$	7,397,566,722 8, 0.0989 1,829,860,637 1, 1,808,834 \$ 595,780 \$	7,3: 1,8: \$	Exhibit 2 Line 31 / Line 32* 100 Exhibit 2 Line 33 * Line 34 / 100 Line 35 * Line 1	¢/kWh) {   llocated by Firm CP	Total System kWh Sales Capacity Related Costs Incurred (¢/kWh) SC Retail Sales kWh SC Capacity Related Cost Incurred Industrial Capacity Related Cost Allocated by Firm CP	32 34 36
2,076,724 5,220,184 7,296,908	3,341,130 \$ 4,538,367 7,879,496 \$	3,517,004 \$ 4,466,654 7,983,658 \$	2,553,717 \$ 4,758,845 7,312,562 \$	φ	Line 29 + Line 30	pacity Costs and Storage Costs	Total PURPA Purchased Power Capacity Costs Firm Natural Gas Transportation and Storage Costs Total Capacity Related Costs	29 30 31
Estimated September 2018	Estimated August 2018	Estimated July 2018	Estimated E June 2018	Es	Reference	Description		Line No.
Industrial 32.94%	dent Peak CP %	2017 Firm Coincident Peak CP %			nt Peak CP % Industrial 29.96%	2016 Firm Coincident Peak CP %	<b>I</b>	Line No.

## SOUTH CAROLINA RETAIL FUEL CASE PROJECTED BILLING PERIOD CAPACITY RELATED COSTS FOR THE 12 MONTHS ENDING OCTOBER 1, 2018 TO SEPTEMBER 30, 2019

26 27	23 24 25	18 19 20 21	11 12 13 14 15 16	Line No.	4 6 7 7 8 9	Line No.  Line No.
Residential General Service / Lighting	General Service / Lighting Industrial Total SC  SC Canacity Related Costs 6/kWh	SC Capacity Related Costs Allocated on Firm CP kWs Residential General Service / Lighting Industrial Total SC  Projected SC Retail Sales kWh (October 2018 - September 2019)	Total PURPA Purchased Power Capacity Costs  Firm Natural Gas Transportation and Storage Costs  Total Capacity Costs  Line 11 +  Total Projected System Sales kwhs (w/solar)  Capacity Related System Costs Incurred (¢/Kwh)  Projected SC Retail Sales kWh (October 2018 - September 2019) Exhibit 3  SC Capacity Related Costs Incurred  Line 15 *	Description	Total PURPA Purchased Power Capacity Costs  Firm Natural Gas Transportation and Storage Costs  Total Capacity Costs  Line 4 + I  Total Projected System Sales kwhs (w/solar)  Capacity Related System Costs Incurred (¢/Kwh)  Projected SC Retail Sales kWh (October 2018 - September 2019) Exhibit 3  SC Capacity Related Costs Incurred  Line 8 * I	Residential General Service / Lighting Industrial Total SC  Description
Line 18 / Line 22 * 100 Line 19 / Line 23 * 100	Exhibit 3 Exhibit 3 Sum Lines 22 through 24	Total Line 17 * Line 1 Total Line 17 * Line 2 Total Line 17 * Line 3 Sum Lines 18 through 20 er 2019)	Line 11 + Line 12  Exhibit 3  Line 13 / Line 14 *100  r 2019) Exhibit 3  Line 15 * Line 16 /100	Reference	Line 4 + Line 5 Exhibit 3 Line 6 / Line 7 *100 r 2019) Exhibit 3 Line 8 * Line 9 /100	2017 Firm Coincident Peak (CP) KWs 1,617,566 1,175,294 1,371,687 4,164,547  Reference
			\$ 1,982,817 \$ 2,148,911 6,012,999 6,308,810 \$ 7,995,816 \$ 8,457,720 6,290,451,974 6,684,011,828 0.1271 0.1265 1,604,962,893 1,696,282,308 \$ 2,040,074 \$ 2,146,418	April May 2019 2019	\$ 1,800,653 \$ 1,609,257 5,211,925 5,441,832 \$ 7,012,578 \$ 7,051,089 6,499,954,760 6,602,598,785 0.1079 0.1068 1,642,461,420 1,645,838,456 \$ 1,771,995 \$ 1,757,634	CP % 38.84% 28.22% 32.94% 100%  October November 2018 2018
			\$ 3,126,205 \$ 6,008,272 \$ 9,134,477 \$ 7,271,666,889 8,03 0.1256 1,825,984,128 1,96 \$ 2,293,753 \$	June Ji 2019 20	\$ 1,436,345 \$ 5,110,180 \$ 6,546,525 \$ 7,160,709,598 0.0914 1,719,824,102 \$ 1,572,312 \$	December 2018
			4,060,285 \$ 3,866,730 : 5,886,678	July August 2019 2019	1,717,830 \$ 1,696,006 : 5,607,255	January February 2019 2019
	5 9 21	~ ~ ~ ~	\$ 2,413,604 \$ 6,131,107 \$ 8,544,711 \$ 7,846,096,714 87 0.1089 1,973,466,533 21 \$ 2,149,183 \$	September 2019	\$ 1,949,604 4,887,299 \$ 6,836,903 6,739,338,881 0.1014 1,689,772,083 \$ 1,714,234	March 2019

9,276,681 6,740,267 7,866,574 23,883,522

6,580,779,714 5,838,912,144 9,256,345,589 21,676,037,448

0.1410 0.1154 0.0850

21,676,037,448 \$ 23,883,522

87,318,030,105

27,808,246 68,261,208 96,069,453

12 Month Total

28

Industrial

Line 20 / Line 24 \* 100

### SOUTH CAROLINA RETAIL FUEL CASE ACTUAL AND ESTIMATED DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL COSTS FOR THE PERIOD JUNE 2017 - SEPTEMBER 2018

40	39	37 38	36	ν t	2/ 0	2 6	ω ( <u>.</u>	<u>ა</u> (	3 0	20	28	!	ine No	27	26	25	24	23	22	21	20 ET	10	18	16	15		Line No.	14	13	12	11	10	9	8	7	6	σ.	4	ω 1	2 ⊢		Line No.	
Cumulative SC DERP Incremental (Over)/ Under Recovery	Adjustments	Estimated Revenue Collected  SC DFRP Incremental (Over)/Under Recovery	Total DERP Incremental Costs	General and Administrative Evnences	NEW Motor Costs	NIEM Assistant Capacity Control	Carrying Costs on Deferred Amounts	Shared Solar Program	Solar Rehate Drogram	DERD NEM Incentive	DERP Incremental Costs  Purchased Power Agreements	- configuration	Description	Cumulative SC DERP Incremental (Over)/ Under Recovery	Adjustments	SC DERP Incremental (Over)/Under Recovery	Revenue Collected	Total DERP Incremental Costs	General and Administrative Expenses	NEM Meter Costs	NEM Avoided Canacity Costs	Carrying Costs on Deferred Amounts	Solar Rebate Program Shared Solar Program	DERP NEM Incentive	Purchased Power Agreements	DERP Incremental Costs	Description	cumulative sc DERP incremental (Over)/ Under Recovery	Adjustments	(Over)/Under Cumulative Balance-May 2017	SC DERP Incremental (Over)/Under Recovery	Revenue Collected	Total DERP Incremental Costs	General and Administrative Expenses	NEM Meter Costs	NEM Avoided Capacity Costs	Carrying Costs on Deferred Amounts	Shared Solar Program	Solar Rebate Program	DERD NEM Incentive	DERP Incremental Costs	Description	
Prior Month Cum bal + Line 25 + Line 26		line 23 - line 24	Sum Lines 28 through 35										Reference	Prior Month Cum bal + Line 25 + Line 26		Line 23 - Line 24	Company Record	Sum Lines 13 through 20									Reference	Prior Wonth Cum bai + Line 11 + Line 13		Prior Year annual filing	Line 9 - Line 10	Company Record	Sum Lines 1 through 8									Reference	
\$ (314,710) \$	() H	\$ 229,401 \$	\$ 880,956 \$	42,077	77.007	24 607	223 E2E		309,39 <del>4</del> 227 720	300 30/	·		Estimated June 2018	\$ (3,436,123) \$		\$ 335,638 \$	306,538	\$ 642,176 \$	39,278	23,133	15 563	102 657	211,084	160,463	\$ - \$		December 2017	\$ (4,215,209) \$	(4 215 200)	\$ (4,214,130)	\$ (1,079) \$	\$ 578,608 \$	\$ 577,529 \$	83,151	16,201	9,711	147,560	-	151,422	) 169 485		2017	June
352,527 \$	007,700	228,927 \$ 667,237 \$	~	47,430	30,09 <del>4</del>	00000	222 E10		322,211 328 137	377 711	· ^		Estimated July 2018	(3,072,073) \$			306,649	670,700 \$	41,076	24,187	204,343	20/ 3//E	212,597	167,672			January 2018	(4,225,084) \$	(4 335 084)			585,411 \$	575,536 \$	57,925	17,397	10,386	152,043	1	156,814	180 971		2017	July
\$ 1,031,737 \$	0,0,0,0	\$ 228,611 \$ \$ 679,210 \$	,,	40,054	76,097	27 503	))) 655		331,033 338 647	331 000	· ·		Estimated August 2018	(2,677,941)			305,749	\$ 088,669 \$	54,664	25,555	208,330	208 250	221,309	169,047	) ) ) !		February 2018	5 (4,1//,528) \$	(4 477 576)			585,871	633,427		18,360	11,065	157,864		164,554	197 634		2017	August
1,724,810 \$		228,569 \$	,,	47,733	17,609	277,73	221 0/10		338,791 331 20A	338 701	· ·		Estimated September	(2,290,955) \$	(20,337)		307,566	\$ 714,890 \$	46,540	27,007	22 391	212 970	224,129	181,853	\$ - \$		March 2018	) (4,162,120) \$	(4 162 120)			584,504 \$	\$ 599,912 \$		19,145	11,505	162,394	1	167,508	200 057		2017	September
\$ 1,724,810		\$ 915,509 \$ 2,691,076	3,606,584	170 933	191 159	147 570	880 731	, TT, GU,	1,301,494		ı		Estimated 4 months	(1,466,181)				\$ 820,530	32,573	39,136	30,007	<b>3</b> 50 66 <b>7</b>	225,437	242,518			April 2018	(4,U33,396)				\$ 443,813		43,228	20,242	13,490	163,420	ı	168,422	163 736	•	2017	October
														\$ (966,265) \$	(4,649)		307,124	\$ 811,689 \$	32,239	41,256	37 939	222 7E7 -	227,696	253,803			May 2018	\$ (3,//1,/61)			\$ 261,634	\$ 306,391	\$ 568,025	26,329	21,154	14,555	171,430	1	187,295	, 147 262 -	•	2017	November
														\$ (966,265)		2,	\$ 4,924,585	\$ 7,886,832	585,255	292,772	2,247,430 213 582	2 277 VEE	2,318,266	2,229,501	\$		Twelve Months Ended May 2018																

# SOUTH CAROLINA RETAIL FUEL CASE ACTUAL AND ESTIMATED DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL FOR THE PERIOD JUNE 2017 - SEPTEMBER 2018

	-	
Costs	Total Incremental	

5 Total	4 Industrial	3 General	2 Residential	Allocation of DERP Incremental Costs for October 2018 - September 2019	1 Cumulative SC DERP Incremental (Over)/ Under Recovery
100.00% \$	32.94%	28.22%	38.84%	Firm Peak Demand - 2017	Exhibit 8 Line 40
\$ 1,724,810 \$				Total Incremental Costs	
❖			\$	Co	<b>↔</b>
1,724,810	568,105	486,766	669,940	Cost Allocated per Firm Peak Demand	Costs 1,724,810

❖	·		❖	per Firi	Total
1,724,810	568,105	486,766	669,940	per Firm Peak Demand	Total Cost Allocated
525,628	1,518	32,320	491,790	<b>Accounts in Billing Period</b>	Projected Number of
	❖	❖	❖	Year	\$ per Account per
	374.25 \$	15.06 \$	1.36 \$		
	31.19	1.26	0.11	Month	\$ per Account per

6 Residential 7 General 8 Industrial 9 **Total** 

## SOUTH CAROLINA RETAIL FUEL CASE PROJECTED DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL FOR THE 12 MONTHS OCTOBER 1, 2018 TO SEPTEMBER 30, 2019

18	17	16	15	14	13	12	11	10		Line No.		9	<b>∞</b>	7	6	5	4	ω	2	1		Line No.	
Total DERP Incremental Costs	General and Administrative Expenses	NEM Meter Costs	NEM Avoided Capacity Costs	Carrying Costs on Deferred Amounts	Shared Solar Program	Solar Rebate Program	DERP NEM Incentive	Purchased Power Agreements	DERP Incremental Costs	Description		Total DERP Incremental Costs	General and Administrative Expenses	NEM Meter Costs	NEM Avoided Capacity Costs	Carrying Costs on Deferred Amounts	Shared Solar Program	Solar Rebate Program	DERP NEM Incentive	Purchased Power Agreements	DERP Incremental Costs	Description	
Sum Lines 10 through 17										Reference		Sum Lines 1 through 8										Reference	
\$ 1,020,589	24,205	55,993	44,831	244,730	2,982	260,844	385,692	\$ 1,314		2019	April	\$ 961,378	42,733	55,761	40,165	223,854	ı	234,815	364,050	<b>⊹</b>		2018	October
\$ 1,018,478	24,205	55,993	44,831	243,189	2,982	260,844	385,120	\$ 1,314		2019	May	\$ 955,240	42,733	55,810	40,986	226,306	1	238,426	350,979	<b>⊹</b>		2018	November
\$ 1,018,883	24,205	55,993	44,831	241,648	2,982	260,844	387,066	\$ 1,314		2019	June	\$ 955,005	42,733	55,859	41,810	228,753	ı	242,066	343,785	<b>⊹</b>		2018	December
\$ 1,013,403	24,205	55,993	44,831	240,107	2,982	260,844	383,128	\$ 1,314		2019	July	\$ 960,799	24,205	55,908	42,696	231,562	2,982	246,399	355,734	\$ 1,314		2019	January
\$ 1,007,695	24,205	55,993	44,831	238,566	6,448	260,844	375,495	\$ 1,314		2019	August	\$ 978,067	24,205	55,957	43,846	236,250	2,982	253,621	359,894	\$ 1,314		2019	February
\$ 1,007,695 \$ 1,000,642	24,205	55,993	44,831	237,025	6,448	260,844	369,983	\$ 1,314		2019	September	\$ 1,003,679	24,205	55,993	44,831	242,431	2,982	260,844	371,080	\$ 1,314		2019	March
Ŷ						3,041,232	4,432,004	\$ 11,823		Total	12 Month		1									1	

## SOUTH CAROLINA RETAIL FUEL CASE PROJECTED BILLING PERIOD INCREMENTAL COSTS FACTORS FOR DERP COSTS FOR THE BILLING PERIOD OCTOBER 2018 - SEPTEMBER 2019

	То		
Costs	<b>Total Incremental</b>		
	<u>a</u>		

5 Total	4 Industrial	3 General	2 Residential	Allocation of DERP Incremental Costs for October 2018 - September 2019
100.00% \$	32.94%	28.22%	38.84%	Firm Peak Demand - 2017
\$ 11,893,858 \$				Total Incremental Costs
\$ 11,893,858	3,917,509	3,356,615	\$ 4,619,734	Cost Allocated per Firm Peak Demand

1 Total DERP Projected Incremental Costs

Exhibit 10 Line 21

\$

11,893,858

<b>\$</b>			\$	per Firm	Total (
11,893,858	3,917,509	3,356,615	4,619,734	per Firm Peak Demand	Total Cost Allocated
525,628	1,518	32,320	491,790	<b>Accounts in Billing Period</b>	<b>Projected Number of</b>
	\$ 2,580.70	\$ 103.86	\$ 9.39	Year	\$ per Account per
	\$ 215.06	\$ 8.66	\$ 0.78	Month	\$ per Account per

6 Residential 7 General 8 Industrial 9 **Total** 

2016 Firm Coincident Peak CP %

Residential 42.11%

2017 Firm Coincident Peak CP %

Residential 38.84%

# SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - RESIDENTIAL ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2017 - SEPTEMBER 2018

40 41	37 38 39	32 33 34 35	29 30 31	Line No.	27 28	24 25 26	19 20 21 22 23	16 17 18	Line No.	13 14 15	10 11 12	9 8 7 6 5	<b>4</b> 3 2	Line No.
SC DERP Avoided Cost (Over) / Under Recovery Cumulative SC DERP Avoided Cost (Over) / Under Recovery	SC Projected Residential kWh Sales SC Residential DERP Avoided Cost (¢/kWh) SC Residential Rate Billed (¢/kWh)	Total Projected System Sales kwhs (w/solar) DERP Avoided System Cost - (¢/kWh) Projected SC Retail Sales kWh SC DERP Avoided Costs Residential DERP Avoided Costs Allocated by Firm CP	Purchased Power Agreements Shared Solar Program Total DERP Avoided Costs	Description	SC DERP Avoided Cost (Over) / Under Recovery Cumulative SC DERP Avoided Cost (Over) / Under Recovery	SC Residential kWh Sales SC Residential DERP Avoided Cost (¢/kWh) SC Residential Rate Billed (¢/kWh)	Total System kWh Sales DERP Avoided System Cost - (¢/kWh) SC Retail Sales kWh SC DERP Avoided Costs Residential DERP Avoided Costs Allocated by Firm CP	Purchased Power Agreements Shared Solar Program Total DERP Avoided Costs	Description	SC DERP Avoided Cost (Over) / Under Recovery (Over) / Under Cumulative Balance May 2017 Cumulative SC DERP Avoided Cost (Over) / Under Recovery	SC Residential kWh Sales SC Residential DERP Avoided Cost (¢/kWh) SC Residential Rate Billed (¢/kWh)	Total System kWh Sales DERP Avoided System Cost - (¢/kWh) SC Retail Sales kWh SC DERP Avoided Costs Residential DERP Avoided Costs Allocated by Firm CP	Purchased Power Agreements Shared Solar Program Total DERP Avoided Costs	Description
(Line 38 - Line 39) * Line 31/100 Line 40 + prior Month Cum Bal	Line 36 / Line 37 * 100 Docket No. 2017-3-E	Exhibit 2 Line 31 / Line 32* 100 Exhibit 2 Line 33 * Line 34 / 100 Line 35 * Line 1	Line 29 + Line 30	Reference	(Line 25 - Line 26) * Line 24 / 100 Line 27 + prior Month Cum Bal	Line 23 / Line 24 * 100 Company Records	Exhibit 2 Line 18 / Line 19* 100 Exhibit 2 Line 20 * Line 21 / 100 Line 22 * Line 1	Line 16 + Line 17	Reference	( Line 11 - Line 12 ) * Line 10 / 100 Prior Year Annual Filing Line 13 + prior Month Cum Bal	Line 9 / Line 10 * 100 Company Records	Exhibit 2 Line 4 / Line 5* 100 Exhibit 2 Line 6 * Line 7 / 100 Line 8 * Line 1	Line 2 + Line 3	Reference
₩ ₩		<b>«</b> «	⋄		<b>↔</b> ↔		<b>~</b> ~	<b>δ δ</b>		<b>~</b> ~ ~ ~		<b>₩</b> ₩	ۍ <u>۰</u>	
7,768 \$ (19,007) \$	514,956,305 0.0000 (0.0015)	7,397,566,722 0.0000 1,829,860,637 112 \$ 44 \$	454 \$ - 454 \$	Estimated June 2018	8,225 \$ (71,682) \$	547,216,632 0.0000 (0.0015)	7,057,410,509 0.0000 1,689,291,924 40 \$ 17 \$	169 \$ 169 \$	December 2017	12,082 \$ (145,478) (133,396) \$	527,907,707 0.0002 (0.0021)	7,382,797,262 0.0001 1,840,787,327 2,366 \$ 996 \$	9,485 \$ - 9,485 \$	June 2017
9,617 \$ (9,390) \$	638,400,761 0.0000 (0.0015)	8,220,497,571 0.0000 1,979,919,610 105 \$ 41 \$	438 \$ - 438 \$	Estimated July 2018	12,546 \$ (59,135) \$	825,188,829 0.0000 (0.0015)	8,697,594,873 0.00000 2,004,246,555 433 \$ 168 \$	1,880 \$ 1,880 \$	January 2018	14,451 \$ (118,945) \$	665,587,625 0.0001 (0.0021)	8,213,697,211 0.0001 2,004,626,644 1,125 \$ 474 \$	4,609 \$ - 4,609 \$	July 2017
9,719 \$ 329 \$	645,547,468 0.0000 (0.0015)	8,409,562,198 0.0000 2,053,956,924 92 \$ 36 \$	377 \$ - 377 \$	Estimated August 2018	9,208 \$ (49,927) \$	610,886,058 0.0000 (0.0015)	7,453,819,034 0.0000 1,791,706,347 117 \$ 45 \$	487 \$ 487 \$	February 2018	12,617 \$ (106,328) \$	663,376,599 (0.0002) (0.0021)	8,242,499,300 (0.0002) 2,045,712,681 (3,121) \$ (1,314) \$	(12,571) \$ - (12,571) \$	August 2017
8,891 \$ 9,220 \$	590,387,723 0.0000 (0.0015)	7,994,793,000 0.0000 1,986,163,127 91 \$ 36 \$	368 \$ - \$ 368 \$	Estimated September 2018 e	8,786 \$ (41,142) \$	439,248,457 0.0005 (0.0015)	6,443,723,578 0.0004 1,524,004,658 5,656 \$ 2,197 \$	23,919 \$ 23,919 \$	March 2018	12,018 \$ (94,310) \$	570,214,307 0.0000 (0.0021)	7,632,543,035 0.0000 1,907,259,402 100 \$ 42 \$	395 \$ - 395 \$	September 2017
35,996 9,220	2,389,292,256 0.0000 (0.0015)	32,022,419,491 0.0000 7,849,900,299 401 156	1,636 - 1,636	Estimated 4 months ended Sept 2018	8,181 \$ (32,961) \$	436,659,749 0.0004 (0.0015)	6,581,829,396 0.0003 1,584,758,862 4,199 \$ 1,631 \$	17,442 \$ - 17,442 \$	April 2018	8,189 \$ (86,121) \$	441,642,074 0.0000 (0.0018)	6,668,383,285 0.0000 1,664,779,554 81 \$ 34 \$	325 \$ - 325 \$	October 2017
					6,186 \$ (26,775) \$	409,696,777 0.0000 (0.0015)	6,581,962,808 0.0000 1,640,451,950 106 \$ 41 \$	424 \$ - 424 \$	May 2018	6,215 (79,906)	411,775,311 0.0000 (0.0015)	6,410,573,998 0.0000 1,604,311,093 61	245 - 245	November 2017
					118,703 (26,775)	6,549,400,125	87,366,834,289 21,301,936,997 11,162 4,357	46,809 - 46,809	Twelve Months Ended May 2018					

42 43

SC Projected Residential Sales (October 2018-September 2019) SC Residential DERP AC Increment / (Decrement) (¢/kWh)

Exhibit 3 Line 41 / Line 42\* 100

6,580,779,714 0.0001

McGee Exhibit 12 Page 1 of 3 DOCKET NO 2018-3-E

# SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - GENERAL SERVICE / LIGHTING ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2017 - SEPTEMBER 2018

2016 Firm Coincident Peak CP % General Service / Lighting 27.93% 2017 Firm Coincident Peak CP % General Service / Lighting 28.22%

27 28	24 25 26	19 20 21 22 23	16	Line No.	13 14 15	10 11 12	9 8 7 6 5	2	Line No.
SC DERP Avoided Cost (Over) / Under Recovery Cumulative SC DERP Avoided Cost (Over) / Under Recovery	SC General Service/Lighting kWh Sales SC General Service/Lighting DERP Avoided Cost (¢/kWh) SC General Service/Lighting Rate Billed (¢/kWh)	Total System kWh Sales  DERP Avoided System Cost - (¢/kWh)  SC Retail Sales kWh  SC DERP Avoided Costs  General Service/Lighting DERP Avoided Costs Allocated by Firm CP	Purchased Power Agreements Shared Solar Program <b>Total DERP Avoided Costs</b>	Description	SC DERP Avoided Cost (Over) / Under Recovery (Over) / Under Cumulative Balance May 2017 Cumulative SC DERP Avoided Cost (Over) / Under Recovery	SC General Service/Lighting kWh Sales SC General Service/Lighting DERP Avoided Cost (¢/kWh) SC General Service/Lighting Rate Billed (¢/kWh)	Total System kWh Sales DERP Avoided System Cost - (¢/kWh) SC Retail Sales kWh SC DERP Avoided Costs General Service/Lighting DERP Avoided Costs Allocated by Firm CP	Purchased Power Agreements Shared Solar Program <b>Total DERP Avoided Costs</b>	Description
(Line 25 - Line 26) * Line 24 / 100 Line 27 + prior Month Cum Bal	Line 23 / Line 24 * 100 Company Records	Exhibit 2 Line 18 / Line 19* 100 Exhibit 2 Line 20 * Line 21 / 100 Line 22 * Line 1	Line 16 + Line 17	Reference	( Line 11 - Line 12 ) * Line 10 / 100 Prior Year Annual Filing Line 13 + prior Month Cum Bal	Line 9 / Line 10 * 100 Company Records	Exhibit 2 Line 4 / Line 5* 100 Exhibit 2 Line 6 * Line 7 / 100 Line 8 * Line 1	Line 2 + Line 3	Reference
<b>↔</b> ↔		<b>~</b> ~	⋄ ⋄		<b>‹› ‹› ‹›</b>		<b>~</b> ~	⋄	
2,179 \$ (20,432) \$	433,568,983 0.0000 (0.0005)	7,057,410,509 0.0000 1,689,291,924 40 \$ 11 \$	169 \$ 169 \$	December 2017	6,229 \$ (52,302) (46,073) \$	506,172,821 0.0001 (0.0011)	7,382,797,262 0.0001 1,840,787,327 2,366 \$ 661 \$	9,485 \$ - 9,485 \$	June 2017
2,601 \$ (17,831) \$	495,802,604 0.0000 (0.0005)	8,697,594,873 0.0000 2,004,246,555 433 \$	1,880 \$ 1,880 \$	January 2018	6,265 \$ (39,808) \$	540,981,553 0.0001 (0.0011)	8,213,697,211 0.0001 2,004,626,644 1,125 \$ 314 \$	4,609 \$ - 4,609 \$	July 2017
2,310 \$ (15,521) \$	455,308,603 0.0000 (0.0005)	7,453,819,034 0.0000 1,791,706,347 117 \$ 33 \$	487 \$ 487 \$	February 2018	5,182 \$ (34,626) \$	550,338,633 (0.0002) (0.0011)	8,242,499,300 (0.0002) 2,045,712,681 (3,121) \$ (872) \$	(12,571) \$ - (12,571) \$	August 2017
3,630 \$ (11,891) \$	406,753,337 0.0004 (0.0005)	6,443,723,578 0.0004 1,524,004,658 5,656 \$ 1,596 \$	23,919 \$ 23,919 \$	March 2018	5,917 \$ (28,709) \$	535,402,529 0.0000 (0.0011)	7,632,543,035 0.0000 1,907,259,402 100 \$ 28 \$	395 \$ - 395 \$	September 2017
3,283 \$ (8,609) \$	419,580,867 0.0003 (0.0005)	6,581,829,396 0.0003 1,584,758,862 4,199 \$ 1,185 \$	17,442 \$ - 17,442 \$	April 2018	3,919 \$ (24,790) \$	460,342,322 0.0000 (0.0008)	6,668,383,285 0.0000 1,664,779,554 81 \$ 23 \$	325 \$ - 325 \$	October 2017
2,252 \$ (6,356) \$	444,529,906 0.0000 (0.0005)	6,581,962,808 0.0000 1,640,451,950 106 \$	424 \$ - 424 \$	May 2018	2,179 (22,611)	429,859,995 0.0000 (0.0005)	6,410,573,998 0.0000 1,604,311,093 61 17	245 - 245	November 2017
45,946 (6,356)	5,678,642,153	87,366,834,289 21,301,936,997 11,162 3,148	46,809	Twelve Months Ended May 2018					

Line No.

Description

29

Purchased Power Agreements Shared Solar Program Total DERP Avoided Costs

40 41

SC DERP Avoided Cost (Over) / Under Recovery Cumulative SC DERP Avoided Cost (Over) / Under Recovery

(Line 38 - Line 39) \* Line 31/100 Line 40 + prior Month Cum Bal

\$ \$

2,556 \$ (3,800) \$

2,752 \$ (1,047) \$

2,811 \$ 1,763 \$

2,808 \$ 4,572 \$

10,928 4,572

5,838,912,144 0.0001

Line 36 / Line 37 \* 100 Docket No. 2017-3-E

504,947,004 0.0000 (0.0005)

544,523,558 0.0000 (0.0005)

556,952,933 0.0000 (0.0005)

556,543,499 0.0000 (0.0005)

2,162,966,994 0.0000 (0.0005)

Exhibit 3 Line 41 / Line 42\* 100

37 38 39

SC General Service/Lighting kWh Sales
SC General Service/Lighting DERP Avoided Cost (¢/kWh)
SC General Service/Lighting Rate Billed (¢/kWh)

32 33 34 35 36

Total Projected System Sales kwhs (w/solar)
DERP Avoided System Cost - (¢/kWh)
Projected SC Retail Sales kWh
SC DERP Avoided Costs

Exhibit 2
Line 31 / Line 32\* 100
Exhibit 2
Line 33 \* Line 34 / 100
Line 35 \* Line 1

7,397,566,722 0.0000 1,829,860,637 112 \$ 32 \$

8,220,497,571 0.0000 1,979,919,610 105 \$ 30 \$

8,409,562,198 0.0000 2,053,956,924 92 26

7,994,793,000 0.0000 1,986,163,127 91 26

32,022,419,491 0.0000 7,849,900,299 401

\$ \$

\$ \$

113

\$ \$

Line 29 + Line 30

\$

454 \$

438 \$

377

\$

368

\$

1,636

\$

454 \$

438 \$

377 \$

368 \$

1,636

Estimated
June
2018

Estimated July 2018

Estimated August 2018

Estimated September 2018

Estimated
4 months
ended Sept 2018

General Service/Lighting DERP Avoided Costs Allocated by Firm CP

42 43

SC Projected General Service / Lighting Sales (October 2018 - September 2019) SC Residential DERP AC Increment / (Decrement) (¢/kWh)

McGee Exhibit 12 Page 2 of 3 DOCKET NO 2018-3-E

DUKE ENI	
ERGY CAF	
ROLINAS,	

# SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - INDUSTRIAL ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2017 - SEPTEMBER 2018

2016 Firm Coincident Peak CP %

Industrial 29.96%

2017 Firm Coincident Peak CP %

Industrial 32.94%

42 43	40 41	37 38 39	32 33 34 35	29 30 31	Line No.	27 28	24 25 26	19 20 21 22 23	16 17 18	Line No.	13 14 15	10 11 12	98765	4 3 2	Line No.
SC Projected Industrial Sales (October 2018 - September 2019) SC Industrial DERP AC Increment / (Decrement) (¢/kWh)	SC DERP Avoided Cost (Over) / Under Recovery Cumulative SC DERP Avoided Cost (Over) / Under Recovery	SC Industrial kWh Sales SC Industrial DERP Avoided Cost (¢/kWh) SC Industrial Rate Billed (¢/kWh)	Total System kWh Sales DERP Avoided System Cost - (¢/kWh) Projected SC Retail Sales kWh SC DERP Avoided Costs Industrial DERP Avoided Costs Allocated by Firm CP	Purchased Power Agreements Shared Solar Program Total DERP Avoided Costs	Description	SC DERP Avoided Cost (Over) / Under Recovery Cumulative SC DERP Avoided Cost (Over) / Under Recovery	SC Industrial kWh Sales SC Industrial DERP Avoided Cost (¢/kWh) SC Industrial Rate Billed (¢/kWh)	Total System kWh Sales DERP Avoided System Cost - (¢/kWh) SC Retail Sales kWh SC DERP Avoided Costs Industrial DERP Avoided Costs Allocated by Firm CP	Purchased Power Agreements Shared Solar Program <b>Total DERP Avoided Costs</b>	Description	SC DERP Avoided Cost (Over) / Under Recovery (Over) / Under Cumulative Balance May 2017 Cumulative SC DERP Avoided Cost (Over) / Under Recovery	SC Industrial kWh Sales SC Industrial DERP Avoided Cost (¢/kWh) SC Industrial Rate Billed (¢/kWh)	Total System kWh Sales DERP Avoided System Cost - (¢/kWh) SC Retail Sales kWh SC DERP Avoided Costs Industrial DERP Avoided Costs Allocated by Firm CP	Purchased Power Agreements Shared Solar Program <b>Total DERP Avoided Costs</b>	Description
Exhibit 3 Line 41 / Line 42* 100	(Line 38 - Line 39) * Line 31/100 Line 40 + prior Month Cum Bal	Line 36 / Line 37 * 100 Docket No. 2017-3-E	Exhibit 2 Line 31 / Line 32* 100 Exhibit 2 Line 33 * Line 34 / 100 Line 35 * Line 1	Line 29 + Line 30	Reference	(Line 25 - Line 26) * Line 24 / 100 Line 27 + prior Month Cum Bal	Line 23 / Line 24 * 100 Company Records	Exhibit 2 Line 18 / Line 19* 100 Exhibit 2 Line 20 * Line 21 / 100 Line 22 * Line 1	Line 16 + Line 17	Reference	( Line 11 - Line 12 ) * Line 10 / 100 Prior Year Annual Filing Line 13 + prior Month Cum Bal	Line 9 / Line 10 * 100 Company Records	Exhibit 2 Line 4 / Line 5* 100 Exhibit 2 Line 6 * Line 7 / 100 Line 8 * Line 1	Line 2 + Line 3	Reference
	\$ \$		<b>⋄</b>	<u></u>		<b>٠</b>		<b>⋄</b>	\$ \$		\$ \$ \$		<b>~</b> ~	\$ \$	
	(773) \$ 8,056 \$	809,957,328 0.0000 0.0001	7,397,566,722 0.0000 1,829,860,637 112 \$ 37 \$	454 \$ - 454 \$	Estimated June 2018	(697) \$ 8,969 \$	708,506,309 0.0000 0.0001	7,057,410,509 0.0000 1,689,291,924 40 \$ 12 \$	169 \$ 169 \$	December 2017	11,196 \$ (37,313) (26,117) \$	806,706,799 0.0001 (0.0013)	7,382,797,262 0.0001 1,840,787,327 2,366 \$ 709 \$	9,485 \$ - 9,485 \$	June 2017
	(762) \$ 7,294 \$	796,995,291 0.0000 0.0001	8,220,497,571 0.0000 1,979,919,610 105 \$ 35 \$	438 \$ - 438 \$	Estimated July 2018	(540) \$ 8,428 \$	683,255,122 0.0000 0.0001	8,697,594,873 0.0000 2,004,246,555 433 \$ 143 \$	1,880 \$ 1,880 \$	January 2018	10,712 \$ (15,405) \$	798,057,466 0.0000 (0.0013)	8,213,697,211 0.0001 2,004,626,644 1,125 \$	4,609 \$ - 4,609 \$	July 2017
	(821) \$ 6,473 \$	851,456,524 0.0000 0.0001	8,409,562,198 0.0000 2,053,956,924 92 \$ 30 \$	377 \$ - 377 \$	Estimated August 2018	(687) \$ 7,742 \$	725,511,686 0.0000 0.0001	7,453,819,034 0.0000 1,791,706,347 117 \$ 39 \$	487 \$ 487 \$	February 2018	9,881 \$ (5,524) \$	831,997,449 (0.0001) (0.0013)	8,242,499,300 (0.0002) 2,045,712,681 (3,121) \$ (935) \$	(12,571) \$ - (12,571) \$	August 2017
	(809) \$ 5,664 \$	839,231,906 0.0000 0.0001	7,994,793,000 0.0000 1,986,163,127 91 \$ 30 \$	368 \$ - 368 \$	Estimated September 2018 e	1,184 \$ 8,926 \$	678,002,864 0.0003 0.0001	6,443,723,578 0.0004 1,524,004,658 5,656 \$ 1,863 \$	23,919 \$ 23,919 \$	March 2018	10,451 \$ 4,927 \$	801,642,566 0.0000 (0.0013)	7,632,543,035 0.0000 1,907,259,402 100 \$	395 \$ - 395 \$	September 2017
9,256,345,589 0.0001	(3,164) 5,664	3,297,641,049 0.0000 0.0001	32,022,419,491 0.0000 7,849,900,299 401 132	1,636 - 1,636	Estimated 4 months ended Sept 2018	654 \$ 9,580 \$	728,518,246 0.0002 0.0001	6,581,829,396 0.0003 1,584,758,862 4,199 \$ 1,383 \$	17,442 \$ - 17,442 \$	April 2018	5,428 \$ 10,355 \$	762,795,158 0.0000 (0.0007)	6,668,383,285 0.0000 1,664,779,554 81 \$ 24 \$	325 \$ - 325 \$	October 2017
						(751) \$ 8,828 \$	786,225,267 0.0000 0.0001	6,581,962,808 0.0000 1,640,451,950 106 \$	424 \$ - 424 \$	May 2018	(690) 9,665	762,675,787 0.0000 0.0001	6,410,573,998 0.0000 1,604,311,093 61	245 - 245	November 2017
						46,141 8,828	9,073,894,719	87,366,834,289 21,301,936,997 11,162 3,657	46,809	Twelve Months Ended May 2018					

McGee Exhibit 12
Page 3 of 3
DOCKET NO 2018-3-E

## SOUTH CAROLINA RETAIL FUEL CASE PROJECTED BILLING PERIOD DERP AVOIDED COSTS FOR THE 12 MONTHS ENDING OCTOBER 1, 2018 TO SEPTEMBER 30, 2019

26 27 28	22 23 24 25	18 19 20 21	14 15 16	11 12 13	Line No.	7 8 9 10	4 7 0	Line No.  1 2 3 Line No.
SC DERP Avoided Cost ¢/kWh Residential General Service / Lighting Industrial	Projected SC Retail Sales kWh (October 2018 - September 2019) Residential General Service / Lighting Industrial Total SC Sum Liv	SC DERP Avoided Cost Allocated on Firm CP kWs Residential General Service / Lighting Industrial Total SC	Total Projected System Sales kwhs (w/solar) DERP Avoided System Cost - (c/kWh) Projected SC Retail Sales kWh (October 2018 - Septemk SC DERP Avoided Costs	Purchased Power Agreements Shared Solar Program Total DERP Avoided Costs	Description	Total Projected System Sales kwhs (w/solar) DERP Avoided System Cost - (¢/kWh) Projected SC Retail Sales kWh (October 2018 - Septemk SC DERP Avoided Costs	Purchased Power Agreements Shared Solar Program <b>Total DERP Avoided Costs</b>	Class  Residential General Service / Lighting Industrial Total SC  Description
Line 18 / Line 22 * 100 Line 19 / Line 23 * 100 Line 20 / Line 24 * 100	er 2019) Exhibit 3 Exhibit 3 Exhibit 3 Exhibit 3 Sum Lines 22 through 24	Total Line 17 * Line 1 Total Line 17 * Line 2 Total Line 17 * Line 3 Sum Lines 18 through 20	Exhibit 3 Line 13 / Line 14 *100 Exhibit 3 Line 15 * Line 16 /100	Line 11 + Line 12	Reference	Exhibit 3 Line 6 / Line 7 * 100 Exhibit 3 Line 8 * Line 9 /100	Line 4 + Line 5	2017 Firm Coincident Peak (CP) KWs 1,617,566 1,175,294 1,371,687 4,164,547 Reference
			6,290,451,974 0.0005 1,604,962,893 \$ 7,399 \$	\$ 10,040 \$ 18,959 \$ <b>28,999 \$</b>	April 2019	6,499,954,760 0.0000 1,642,461,420 \$	\$ 349 \$ - \$ 349 \$	CP % 38.84% 28.22% 32.94% 100% October 2018
			6,684,011,828 0.0004 1,696,282,308 7,366	10,064 18,959 <b>29,023</b>	May 2019	6,602,598,785 0.0000 1,645,838,456 74	297 - 297	November 2018
				\$ 10,085 \$ 18,959 \$ <b>29,044</b> \$	June 2019	7,160,709,598 0.0000 1,719,824,102 \$ 51 \$	\$ 211 \$ - \$ 211 9	December 2018
			8,039,482,276 0.0004 1,965,438,990 \$ 7,097	\$ 10,070 18,959 \$ <b>29,029</b>	July 2019	8,082,286,102 0.0004 1,930,817,460 \$ 6,903	\$ 9,935 18,959 \$ 28,894	January 2019
			8,522,431,399 0.0005 2,102,131,923 \$ 9,487	\$ 10,015 28,448 \$ <b>38,463</b>	August 2019	7,579,000,897 0.0004 1,879,057,152 \$ 7,165	\$ 9,942 18,959 \$ 28,901	February 2019
			7,846,096,714 0.0005 1,973,466,533 \$	\$ 10,007 28,448 \$ <b>38,455</b>	September 2019	6,739,338,881 0.0010 1,689,772,083 \$	\$ 51,027 18,959 \$ 69,986	March 2019
0.0005 0.0004 0.0003	6,580,779,714 5,838,912,144 9,256,345,589 21,676,037,448	\$ 31,129 \$ 22,617 \$ 26,397 \$ 80,143	87,318,030,105 21,676,037,448 \$ 80,143	\$ 132,041 189,611 \$ <b>321,652</b>	12 Month Total			

McGee Exhibit 14
DOCKET NO 2018-3-E

### **DUKE ENERGY CAROLINAS, LLC**

## SOUTH CAROLINA RETAIL FUEL CASE DERP NEM INCENTIVE CALCULATION EFFECTIVE OCTOBER 1, 2018 - SEPTEMEBER 30, 2019

			æ	Residential		
Line			(Rat	(Rate Schedule	Ge	General Service (Rate
No.	Description	Reference		SCRS)		Schedule SCLGS)
1	Representative NEM Customer bill without solar		\$	1,390.14	Ş	35,530.91
2	Representative NEM Customer bill With solar		\$	740.99	Ş	24,756.09
ω	Difference	Line 1 - 2	\$	649.15 \$	Ş	10,774.82
4	Representative annual solar production kWhs			6,084		153,407
5	Value of solar in dollars per kWh	Proposed		0.05323		0.05310
6	Net Benefits delivered by solar production	Line 4 * 5	\$	323.86 \$	\$	8,145.70
7	Under-recovered revenue from NEM Customer	Line 3 - 6	Ş	325.30	\$	2,629.13
∞	Annual solar production kWhs	Line 4		6,084		153,407
9	DERP NEM Incentive in dollars per kWh	Line 7 / Line 8	\$	0.05347 \$	\$	0.01714